

### **C. (10 Points) Commuality-Based Organization Set-Aside:**

Clean Air Council is a 501(c)3 non-profit member-supported organization that works in partnership with neighborhood and community-based organizations in the greater Philadelphia region and numerous other communities across Pennsylvania. For over fifty years, the Council has worked to protect and defend everyone's right to a healthy environment. Through programming in sustainable transportation, climate, environmental health and justice, advocacy, and legal work the Council supports thousands of members across Pennsylvania and neighboring states. Members of Clean Air Council may provide a monetary donation, volunteer their time, or participate in multiple Clean Air Council campaign actions such as submitting a suggested public comment about a local industrial facilities permitting. The Council includes mention of this membership definition in its bylaws:

#### **"MEMBERS**

3.1 Membership Corporation. For the purpose of recognizing persons who contribute to or support the Corporation, the Directors shall create at least one class of "membership," and may create more than one class of membership, as the Directors see fit. The Corporation shall not have "members" as the term is used as a term of art in the Pennsylvania Nonprofit Corporation Law of 1988, 15 P.S. §§ 5101, et seq. (The "Act")."

One of the Council's most effective strategies has been to work with groups of neighbors around a particular environmental issue impacting their community. Through outreach and education, Council staff work to train residents in developing leadership and organizing skills, such that members of impacted communities are leading efforts to improve local public health. This empowerment-based model means that the Council is most often playing a supportive role, providing residents and community organizations with resources and technical expertise, while impacted residents are at the forefront, speaking at township and county meetings, meeting with legislators and other stakeholders, leading rallies, and writing letters to the editor. The Council's goal is to appropriately address residents' local pollution concerns while empowering them to effectively participate in municipal and state government permitting processes.

For example, in the greater Marcus Hook area, residents were reporting concerns about increased pollution and health symptoms for several years. The Council built relationships with concerned residents and later supported them in developing their own neighborhood-based group to address their pollution and public health concerns. That group, the Marcus Hook Area Neighbors for Public Health, has now become a central organizing effort communicating directly with the Pennsylvania Department of Environmental Protection, the Delaware County Office of Environmental Crimes, and the newly formed Delaware County Health Department regarding the community's health concerns. In this way, a group that the Council helped to establish has become one of our key partners, working independently, but with our support. This is the essence of the Council's community-based empowerment model.

In addition to partnering with groups that we helped to establish, the Council also works in partnership with many already-established community-based groups that are working on their own campaigns to address urgent matters of environmental health and justice in their communities. In this proposed program of work, the Council will be working with existing groups as well as concerned residents.

In the Eastwick neighborhood of Southwest Philadelphia, the Council has worked for many years to assist residents in reporting neighborhood hazards like illegal air pollution from nearby autoshops as well as extensive illegal dumping, specifically working with Registered Community Organizations Eastwick United and Empowered CDC. Clean Air Council has also worked with these community organizations and others to submit official comments regarding the redevelopment of the former South Philadelphia refinery as well as the National Pollution Discharge Elimination System (NPDES) permit renewal at the Darby Creek Tank Farm.

Residents in Chester, Trainer, and Marcus Hook, Pennsylvania as well as Southwest Philadelphia depend on the Clean Air Council to provide useful analysis of complex air and water pollution permits so they can more effectively participate in local decision making. The Council deeply values this relationship and works hard to adequately represent residents' concerns and opinions in the drafting of its comments and other communications. In the past two years, the Council worked with residents in this project's target areas to request that both the state of Pennsylvania and the City of Philadelphia increase air monitoring in Chester, Trainor, Marcus Hook and Southwest Philadelphia in order to address increasing air pollution. Residents in these neighborhoods relied on Clean Air Council to provide a usable format to comment on Pennsylvania and Philadelphia's proposed air monitoring networks and strong participation in this campaign confirmed that local residents aligned themselves with the Council's suggested comments.






## **Chester Residents Concerned for Quality Living**

(CRCQL, pronounced "circle")

484-206-5180

[getinvolved@chesterresidents.org](mailto:getinvolved@chesterresidents.org)

**[www.ChesterResidents.org](http://www.ChesterResidents.org)**

   **chester\_ej**

March 22, 2022

To Whom it May Concern:

Since 1992, Chester Residents Concerned for Quality Living has been diligently fighting against the environmental racism occurring in Chester. Comprised mostly of residents, we have consistently been a voice for our community.

One big deficiency has been usable data to educate our residents and the surrounding communities.

We are in support of the EPA Grant applied for by Clean Air Council and John Hopkins University. Currently there are only two monitors, one in Chester and one in Marcus Hook. The data from these monitors does not capture a true picture of pollutants affecting our communities. Nor is the data accessible to the public and lacks interpretation.

We look forward to using that data to educate our community.

Thank you,  
Zulene Mayfield, CRCQL Chairperson



**OFFICE OF THE DISTRICT ATTORNEY**

DELAWARE COUNTY COURTHOUSE

MEDIA, PENNSYLVANIA 19063

(610) 891-4162

**JACK STOLLSTEIMER**  
DISTRICT ATTORNEY

March 25, 2022

**RE: The American Rescue Plan Grant Application**  
**RFA Number: EPA-OAR-OAQPS-22-01**

Dear EPA RFA Reviewers:

The Delaware County District Attorney's Office expresses its strong support for the Clean Air Council's (CAC's) referenced grant application, entitled Enhanced Air Quality Monitoring for Communities.

The Delaware County's District Attorney's Environmental Crimes Unit regularly works within our communities, especially those along the Delaware River, in coordination with nonprofits, grassroots groups and local government officials with the goal of preventing crime and improving the health, safety. Many of these riverfront communities are Environmental Justice Areas. Presently, the paucity of air quality impact and environmental health data in these communities is stark, and the CAC's proposal to expand both particulate matter (PM) and volatile organic compound (VOC) monitoring; to empower local self-reliance, and to foster community cohesion will not only provide valuable information and opportunities to these burdened communities but will generate important data for the local government departments focusing on environmental protection and safety.

The Delaware County District Attorney's Office urges the EPA to provide funding for this grant application.

Respectfully,

Melissa Muroff  
Chief, Environmental Crimes Unit  
Assistant District Attorney

Eastwick United Community Development Corporation (CDC) is a Registered Community Organization (RCO) in the city of Philadelphia representing the Eastwick neighborhood of Southwest Philadelphia.

Eastwick United CDC is a collaboration between businesses, faith-based organizations, community organizations, and residents. Coming together to make a difference.

Eastwick United is residents of the Eastwick, united in a common goal to improve the quality of life for members of the Eastwick community by economic development, the implementation of health and safety measures, personal and professional development of residents, and an unrelenting advocacy for injustice.

## Project Narrative File(s)

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\* **Mandatory Project Narrative File Filename:**

Add Mandatory Project Narrative File

Delete Mandatory Project Narrative File

View Mandatory Project Narrative File

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To add more Project Narrative File attachments, please use the attachment buttons below.

Add Optional Project Narrative File

Delete Optional Project Narrative File

View Optional Project Narrative File



# EPA KEY CONTACTS FORM

OMB Number: 2030-0020  
Expiration Date: 06/30/2024

**Authorized Representative:** *Original awards and amendments will be sent to this individual for review and acceptance, unless otherwise indicated.*

Name: Prefix:	<input type="text"/>	First Name:	<input type="text" value="Eric"/>	Middle Name:	<input type="text"/>
Last Name:	<input type="text" value="Cheung"/>			Suffix:	<input type="text"/>
Title:	<input type="text" value="Deputy Director"/>				
<b>Complete Address:</b>					
Street1:	<input type="text" value="135 S. 19th Street Suite #300"/>				
Street2:	<input type="text"/>				
City:	<input type="text" value="Philadelphia"/>	State:	<input type="text" value="PA: Pennsylvania"/>		
Zip / Postal Code:	<input type="text" value="19103"/>	Country:	<input type="text" value="USA: UNITED STATES"/>		
Phone Number:	<input type="text" value="2155674004"/>		Fax Number:	<input type="text"/>	
E-mail Address:	<input type="text" value="pgabrie@cleanair.org"/>				

**Payee:** *Individual authorized to accept payments.*

Name: Prefix:	<input type="text" value="Mr."/>	First Name:	<input type="text" value="Eric"/>	Middle Name:	<input type="text"/>
Last Name:	<input type="text" value="Cheung"/>			Suffix:	<input type="text"/>
Title:	<input type="text" value="Deputy Director"/>				
<b>Complete Address:</b>					
Street1:	<input type="text" value="135 S. 19th Street Suite #300"/>				
Street2:	<input type="text"/>				
City:	<input type="text" value="Philadelphia"/>	State:	<input type="text" value="PA: Pennsylvania"/>		
Zip / Postal Code:	<input type="text" value="19103"/>	Country:	<input type="text" value="USA: UNITED STATES"/>		
Phone Number:	<input type="text" value="2155674004"/>		Fax Number:	<input type="text"/>	
E-mail Address:	<input type="text"/>				

**Administrative Contact:** *Individual from Sponsored Programs Office to contact concerning administrative matters (i.e., indirect cost rate computation, rebudgeting requests etc).*

Name: Prefix:	<input type="text"/>	First Name:	<input type="text"/>	Middle Name:	<input type="text"/>
Last Name:	<input type="text"/>			Suffix:	<input type="text"/>
Title:	<input type="text"/>				
<b>Complete Address:</b>					
Street1:	<input type="text"/>				
Street2:	<input type="text"/>				
City:	<input type="text"/>	State:	<input type="text"/>		
Zip / Postal Code:	<input type="text"/>	Country:	<input type="text"/>		
Phone Number:	<input type="text"/>		Fax Number:	<input type="text"/>	
E-mail Address:	<input type="text"/>				

# EPA KEY CONTACTS FORM

**Project Manager:** *Individual responsible for the technical completion of the proposed work.*

---

**Name:** Prefix:  First Name:  Middle Name:   
Last Name:  Suffix:   
Title:

**Complete Address:**

Street1:   
Street2:   
City:  State:   
Zip / Postal Code:  Country:   
Phone Number:  Fax Number:   
E-mail Address:



## Preaward Compliance Review Report for All Applicants and Recipients Requesting EPA Financial Assistance

Note: Read Instructions before completing form.

### I. A. Applicant/Recipient (Name, Address, City, State, Zip Code)

Name:

Address:

City:

State:  Zip Code:

B. DUNS No.

II. Is the applicant currently receiving EPA Assistance? ☒ Yes ☐ No

III. List all civil rights lawsuits and administrative complaints pending against the applicant/recipient that allege discrimination based on race, color, national origin, sex, age, or disability. (Do not include employment complaints not covered by 40 C.F.R. Parts 5 and 7.)

n/a

IV. List all civil rights lawsuits and administrative complaints decided against the applicant/recipient within the last year that allege discrimination based on race, color, national origin, sex, age, or disability and enclose a copy of all decisions. Please describe all corrective actions taken. (Do not include employment complaints not covered by 40 C.F.R. Parts 5 and 7.)

n/a

V. List all civil rights compliance reviews of the applicant/recipient conducted by any agency within the last two years and enclose a copy of the review and any decisions, orders, or agreements based on the review. Please describe any corrective action taken. (40 C.F.R. § 7.80(c)(3))

n/a

VI. Is the applicant requesting EPA assistance for new construction? If no, proceed to VII; if yes, answer (a) and/or (b) below.

☐ Yes ☒ No

a. If the grant is for new construction, will all new facilities or alterations to existing facilities be designed and constructed to be readily accessible to and usable by persons with disabilities? If yes, proceed to VII; if no, proceed to VI(b).

☐ Yes ☐ No

b. If the grant is for new construction and the new facilities or alterations to existing facilities will not be readily accessible to and usable by persons with disabilities, explain how a regulatory exception (40 C.F.R. 7.70) applies.

VII. Does the applicant/recipient provide initial and continuing notice that it does not discriminate on the basis of race, color, national origin, sex, age, or disability in its program or activities? (40 C.F.R. 5.140 and 7.95)

☒ Yes ☐ No

a. Do the methods of notice accommodate those with impaired vision or hearing?

☒ Yes ☐ No

b. Is the notice posted in a prominent place in the applicant's offices or facilities or, for education programs and activities, in appropriate periodicals and other written communications?

☒ Yes ☐ No

c. Does the notice identify a designated civil rights coordinator?

☒ Yes ☐ No

VIII. Does the applicant/recipient maintain demographic data on the race, color, national origin, sex, age, or handicap of the population it serves? (40 C.F.R. 7.85(a))

☐ Yes ☒ No

IX. Does the applicant/recipient have a policy/procedure for providing access to services for persons with limited English proficiency? (40 C.F.R. Part 7, E.O. 13166)

☒ Yes ☐ No

- X. If the applicant is an education program or activity, or has 15 or more employees, has it designated an employee to coordinate its compliance with 40 C.F.R. Parts 5 and 7? Provide the name, title, position, mailing address, e-mail address, fax number, and telephone number of the designated coordinator.

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- XI. If the applicant is an education program or activity, or has 15 or more employees, has it adopted grievance procedures that assure the prompt and fair resolution of complaints that allege a violation of 40 C.F.R. Parts 5 and 7? Provide a legal citation or Internet Address for, or a copy of, the procedures.

--

**For the Applicant/Recipient**

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. I assure that I will fully comply with all applicable civil rights statutes and EPA regulations.

A. Signature of Authorized Official

Ptah Gabriele

B. Title of Authorized Official

Grant Manager

C. Date

03/25/2022

**For the U.S. Environmental Protection Agency**

I have reviewed the information provided by the applicant/recipient and hereby certify that the applicant/recipient has submitted all preaward compliance information required by 40 C.F.R. Parts 5 and 7; that based on the information submitted, this application satisfies the preaward provisions of 40 C.F.R. Parts 5 and 7; and that the applicant has given assurance that it will fully comply with all applicable civil rights statutes and EPA regulations.

A. \*Signature of Authorized EPA Official

B. Title of Authorized Official

C. Date

**\* See Instructions**

Instructions for EPA FORM 4700-4 (Rev. 06/2014)

General. Recipients of Federal financial assistance from the U.S. Environmental Protection Agency must comply with the following statutes and regulations.

Title VI of the Civil Rights Acts of 1964 provides that no person in the United States shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance. The Act goes on to explain that the statute shall not be construed to authorize action with respect to any employment practice of any employer, employment agency, or labor organization (except where the primary objective of the Federal financial assistance is to provide employment). Section 13 of the 1972 Amendments to the Federal Water Pollution Control Act provides that no person in the United States shall on the ground of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under the Federal Water Pollution Control Act, as amended. Employment discrimination on the basis of sex is prohibited in all such programs or activities. Section 504 of the Rehabilitation Act of 1973 provides that no otherwise qualified individual with a disability in the United States shall solely by reason of disability be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance. Employment discrimination on the basis of disability is prohibited in all such programs or activities. The Age Discrimination Act of 1975 provides that no person on the basis of age shall be excluded from participation under any program or activity receiving Federal financial assistance. Employment discrimination is not covered. Age discrimination in employment is prohibited by the Age Discrimination in Employment Act administered by the Equal Employment Opportunity Commission. Title IX of the Education Amendments of 1972 provides that no person in the United States on the basis of sex shall be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance. Employment discrimination on the basis of sex is prohibited in all such education programs or activities. Note: an education program or activity is not limited to only those conducted by a formal institution. 40 C.F.R. Part 5 implements Title IX of the Education Amendments of 1972. 40 C.F.R. Part 7 implements Title VI of the Civil Rights Act of 1964, Section 13 of the 1972 Amendments to the Federal Water Pollution Control Act, and Section 504 of The Rehabilitation Act of 1973. The Executive Order 13166 (E.O. 13166) entitled; "Improving Access to Services for Persons with Limited English Proficiency" requires Federal agencies work to ensure that recipients of Federal financial assistance provide meaningful access to their LEP applicants and beneficiaries.

Items "Applicant" means any entity that files an application or unsolicited proposal or otherwise requests EPA assistance. 40 C.F.R. §§ 5.105, 7.25. "Recipient" means any entity, other than applicant, which will actually receive EPA assistance. 40 C.F.R. §§ 5.105, 7.25. "Civil rights lawsuits and administrative complaints" means any lawsuit or administrative complaint alleging discrimination on the basis of race, color, national origin, sex, age, or disability pending or decided against the applicant and/or entity which actually benefits from the grant, but excluding employment complaints not covered by 40 C.F.R. Parts 5 and 7. For example, if a city is the named applicant but the grant will actually benefit the Department of Sewage, civil rights lawsuits involving both the city and the Department of Sewage should be listed. "Civil rights compliance review" means any review assessing the applicant's and/or recipient's compliance with laws prohibiting discrimination on the basis of race, color, national origin, sex, age, or disability. Submit this form with the original and required copies of applications, requests for extensions, requests for increase of funds, etc. Updates of information are all that are required after the initial application submission. If any item is not relevant to the project for which assistance is requested, write "NA" for "Not Applicable." In the event applicant is uncertain about how to answer any questions, EPA program officials should be contacted for clarification. \* Note: Signature appears in the Approval Section of the EPA Comprehensive Administrative Review For Grants/Cooperative Agreements & Continuation/Supplemental Awards form.

## Other Attachment File(s)

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\* Mandatory Other Attachment Filename:

Add Mandatory Other Attachment

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To add more "Other Attachment" attachments, please use the attachment buttons below.

Add Optional Other Attachment

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# BUDGET INFORMATION - Non-Construction Programs

OMB Number: 4040-0006  
Expiration Date: 02/28/2022

## SECTION A - BUDGET SUMMARY

Grant Program Function or Activity  (a)	Catalog of Federal Domestic Assistance Number  (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. Surveys, Studies, Research, Investigations, Demonstrations, and Special Purpose Activities Relating to the Clean Air Act	66.034	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text" value="419,446.00"/>	\$ <input type="text" value="0.00"/>	\$ <input type="text" value="419,446.00"/>
2. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
5. Totals		\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text" value="419,446.00"/>	\$ <input type="text" value="0.00"/>	\$ <input type="text" value="419,446.00"/>

Standard Form 424A (Rev. 7-97)  
Prescribed by OMB (Circular A -102) Page 1

# SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1) Surveys, Studies, Research, Investigations, Demonstrations, and Special Purpose Activities Relating to the Clean Air Act	(2)	(3)	(4)	
a. Personnel	\$ 259,056.00	\$	\$	\$	\$ 259,056.00
b. Fringe Benefits	47,874.00				47,874.00
c. Travel	2,220.00				2,220.00
d. Equipment	43,000.00				43,000.00
e. Supplies	0.00				0.00
f. Contractual	8,000.00				8,000.00
g. Construction	0.00				0.00
h. Other	25,264.00				25,264.00
i. Total Direct Charges (sum of 6a-6h)	385,414.00				\$ 385,414.00
j. Indirect Charges	34,032.00				\$ 34,032.00
k. TOTALS (sum of 6i and 6j)	\$ 419,446.00	\$	\$	\$	\$ 419,446.00
7. Program Income	\$	\$	\$	\$	\$

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SECTION C - NON-FEDERAL RESOURCES					
(a) Grant Program		(b) Applicant	(c) State	(d) Other Sources	(e)TOTALS
8.	Surveys, Studies, Research, Investigations, Demonstrations, and Special Purpose Activities Relating to the Clean Air Act	\$	\$	\$	\$
9.					
10.					
11.					
12. TOTAL (sum of lines 8-11)		\$	\$	\$	\$

SECTION D - FORECASTED CASH NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$	\$	\$	\$	\$
14. Non-Federal	\$				
15. TOTAL (sum of lines 13 and 14)	\$	\$	\$	\$	\$

SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT					
(a) Grant Program		FUTURE FUNDING PERIODS (YEARS)			
		(b)First	(c) Second	(d) Third	(e) Fourth
16.	Surveys, Studies, Research, Investigations, Demonstrations, and Special Purpose Activities Relating to the Clean Air Act	\$ 421,352.00	\$	\$	\$
17.					
18.					
19.					
20. TOTAL (sum of lines 16 - 19)		\$ 421,352.00	\$	\$	\$

SECTION F - OTHER BUDGET INFORMATION	
21. Direct Charges: \$385,414	22. Indirect Charges: \$34,032
23. Remarks:	

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Prescribed by OMB (Circular A -102) Page 2



A project of Action Center, Inc.  
1434 Elbridge St,  
Philadelphia, PA 19149  
215-743-4884  
EIN 30-0246999

Philadelphia, PA  
Baltimore, MD

March 23, 2022

To Whom it May Concern:

Energy Justice Network is a national organization based in Philadelphia. We exist to support communities threatened by dirty energy and waste industry facilities.

For well over 20 years, we've been deeply involved in supporting communities in the Philadelphia region to stop proposed and existing air polluters. Philadelphia is the poorest big city in the nation, and is surrounded by the nation's worst cluster of trash incinerators. There are five incinerators circling the city, all of which are among the top 10 industrial air polluters in the 7-county area. These are major contributors to the fact that Philadelphia area is consistently a top 10 "asthma capital" and that the city is the #1 large city for cancer incidence. Four of the five incinerators are the largest air polluters in their counties, and two sit in low-income small cities populated mainly by Black residents: Chester and Camden.

The incinerator in Chester is the largest in the nation with the fewest pollution controls. It's been our focus for many years, as it's a glaring case of environmental racism. Covanta's incinerator in Chester is also the city's largest air polluter and largest environmental violator by far. They're only one block from a sewage sludge incinerator that is also a large air polluter, not to mention a myriad of other industrial air polluters along the Delaware County waterfront.

The Clean Air Council has been helpful in working with Johns Hopkins University to bring specialized air monitoring to Chester that has shown that some facilities are lying to EPA about their air emissions of hazardous air pollutants. We look forward to further innovative air monitoring in coordination with Clean Air Council so that we can use data like this to draw attention to facilities that have not received the public attention they deserve.

If funded by EPA, Energy Justice Network will support Clean Air Council's Community Based Air Quality Monitoring Program in the following ways:

---

*Supporting a clean energy and zero waste future by assisting grassroots struggles against polluting energy and waste technologies.*

**[www.EnergyJustice.net](http://www.EnergyJustice.net)**



1. Collaborate with the Clean Air Council on research, community organizing, local clean air ordinances, and other legal angles to address facilities identified by air monitoring as excessively polluting.
2. Collaborate with the Clean Air Council on educational presentations and/or meetings to inform members of the community about how they can get involved in community-based air quality monitoring.
3. Connect the Clean Air Council with residents and businesses where monitors can be installed.
4. Work together on social media, press releases and earned media to inform a wider audience and increase awareness of both the project and the results

We look forward to partnering with the Clean Air Council on this project, and hope that it will result in much needed additional air monitoring in the City of Chester and throughout Delaware County.

Thank you for your consideration,

Sincerely,



Mike Ewall  
Executive Director

---

*Supporting a clean energy and zero waste future by assisting grassroots struggles against polluting energy and waste technologies.*

**[www.EnergyJustice.net](http://www.EnergyJustice.net)**

## Application for Federal Assistance SF-424

\* 1. Type of Submission:

- ☐ Preapplication  
☒ Application  
☐ Changed/Corrected Application

\* 2. Type of Application:

- ☒ New  
☐ Continuation  
☐ Revision

\* If Revision, select appropriate letter(s):

\* Other (Specify):

\* 3. Date Received:

03/25/2022

4. Applicant Identifier:

5a. Federal Entity Identifier:

5b. Federal Award Identifier:

State Use Only:

6. Date Received by State:

7. State Application Identifier:

8. APPLICANT INFORMATION:

\* a. Legal Name: Delaware Valley Citizens Council For Clean Air

\* b. Employer/Taxpayer Identification Number (EIN/TIN):

23-1683461

\* c. Organizational DUNS:

8377853930000

d. Address:

\* Street1:

135 S. 19th St

Street2:

\* City:

Philadelphia

County/Parish:

\* State:

PA: Pennsylvania

Province:

\* Country:

USA: UNITED STATES

\* Zip / Postal Code:

19103-4911

e. Organizational Unit:

Department Name:

Division Name:

f. Name and contact information of person to be contacted on matters involving this application:

Prefix:

\* First Name:

Ptah

Middle Name:

Ferguson

\* Last Name:

Gabrie

Suffix:

Title:

Organizational Affiliation:

\* Telephone Number: 215-500-9641

Fax Number:

\* Email: pgabrie@cleanair.org

## Application for Federal Assistance SF-424

### \* 9. Type of Applicant 1: Select Applicant Type:

M: Nonprofit with 501C3 IRS Status (Other than Institution of Higher Education)

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

\* Other (specify):

### \* 10. Name of Federal Agency:

Environmental Protection Agency

### 11. Catalog of Federal Domestic Assistance Number:

66.034

CFDA Title:

Surveys, Studies, Research, Investigations, Demonstrations, and Special Purpose Activities  
Relating to the Clean Air Act

### \* 12. Funding Opportunity Number:

EPA-OAR-OAQPS-22-01

\* Title:

Enhanced Air Quality Monitoring for Communities

### 13. Competition Identification Number:

Title:

### 14. Areas Affected by Project (Cities, Counties, States, etc.):

Add Attachment

Delete Attachment

View Attachment

### \* 15. Descriptive Title of Applicant's Project:

Community Based Air Quality Monitoring in Environmental Justice (EJ) communities along the  
Industrialized I-95 corridor in Southeast Pennsylvania

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

**Application for Federal Assistance SF-424****16. Congressional Districts Of:**

\* a. Applicant PA-003

\* b. Program/Project PA-005

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment

Delete Attachment

View Attachment

**17. Proposed Project:**

\* a. Start Date: 10/01/2022

\* b. End Date: 09/30/2024

**18. Estimated Funding (\$):**

* a. Federal	419,446.00
* b. Applicant	0.00
* c. State	0.00
* d. Local	0.00
* e. Other	0.00
* f. Program Income	0.00
* g. TOTAL	419,446.00

**\* 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

- ☐ a. This application was made available to the State under the Executive Order 12372 Process for review on .
- ☒ b. Program is subject to E.O. 12372 but has not been selected by the State for review.
- ☐ c. Program is not covered by E.O. 12372.

**\* 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)**☐ Yes ☒ No

If "Yes", provide explanation and attach

Add Attachment

Delete Attachment

View Attachment

**21. \*By signing this application, I certify (1) to the statements contained in the list of certifications\*\* and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances\*\* and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)**

☒ \*\* I AGREE

\*\* The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

**Authorized Representative:**

Prefix: Mr. \* First Name: Ptah

Middle Name:

\* Last Name: Gabriele

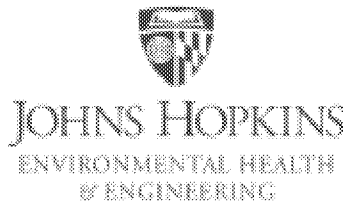
Suffix:

\* Title: Grant Manager

\* Telephone Number: 2155674004 Fax Number: 

\* Email: pgabrie@cleanair.org

\* Signature of Authorized Representative: Ptah Gabriele \* Date Signed: 03/25/2022



March 22, 2022

Dear EPA RFA reviewers,

It is my pleasure to support the proposed work led by the Clean Air Council to expand monitoring of pollutants in the EJ communities of Marcus Hook, Chester, and Southwest Philadelphia. This effort would improve understanding of air pollutants and associated exposures to communities in the area. Researchers from Johns Hopkins University (JHU) in Baltimore, MD have been working to measure and understand air pollutant concentrations and risk along the industrialized area straddling I-95 in Delaware County. The Clean Air Council has been an instrumental partner in the region and has connected Johns Hopkins researchers with residents in Marcus Hook, Trainer, and Chester area so that PM monitoring instrumentation can be installed with resident's support. Additionally, this has provided a medium for communication so that residents can share their concerns about air pollution with JHU and help facilitate discussion and understanding of the results of the study.

In the context of this project, JHU supports Clean Air Council's proposal to install additional sensors to monitor for PM, VOC, and benzene in the area. These sensors will fill a critical knowledge gap and complement and strengthen the work of the Johns Hopkins monitoring and measurement project to better understand the impact of air pollution on children and families. Johns Hopkins will support the Clean Air Council by consulting with the Clean Air Council on study design, monitor placement, data processing and communication of the results of the measurements. We are excited to continue this partnership to improve the understanding of air pollution in Delaware County.

Sincerely,

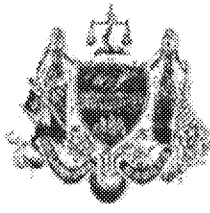
A handwritten signature in black ink, appearing to read "Peter DeCarlo".

Peter DeCarlo, Ph.D.  
Associate Professor of Environmental Health and Engineering  
Johns Hopkins University

---

Whiting School of Engineering	* 3400 N. Charles Street	* Ames Hall 313	* Baltimore, MD 21218	* <a href="mailto:che_wse@jhu.edu">che_wse@jhu.edu</a>
Bloomberg School of Public Health	* 615 N. Wolfe Street	* Room E7527	* Baltimore, MD 21205	* <a href="mailto:che_sph@jhu.edu">che_sph@jhu.edu</a>

<http://che.jhu.edu>



CITY OF PHILADELPHIA  
CITY COUNCIL

HELEN GYM  
ROOM 582, CITY HALL  
Philadelphia, PA 19107  
(215) 686-3420 or 3421  
Fax No. (215) 686-1930

COUNCILMEMBER AT-LARGE

March 25, 2022  
Joseph Otis Minott, Esq.  
Executive Director and Chief Counsel, Clean Air Council

Re: Air Quality Monitoring in Environmental Justice Communities

**RFA NUMBER: EPA-OAR-OAQPS-22-01**

Dear Mr. Minott,

I write to confirm my enthusiastic support for Clean Air Council's (CAC) grant application to the Environmental Protection Agency (EPA), entitled *Community Based Air Quality Monitoring in Environmental Justice (EJ) Communities along the Industrialized I-195 corridor in Southeast Pennsylvania*.

As a Philadelphia City Councilmember At-Large, I have a strong interest in the work that Clean Air Council does to improve air quality and protect our most vulnerable communities from hazardous pollutants. I have seen first-hand the effectiveness of Clean Air Council's public health and sustainability initiatives, as I have collaborated with the Council to advance our shared interests in addressing environmental justice and the public health of our communities.

I strongly support this effort to improve the air quality and increase protections for communities in Southeastern Pennsylvania that are facing dangerous threats to their public health and well-being. The expansion of air pollution monitoring and community-based outreach and education on air quality data gathering and mitigation policies will be very beneficial for predominantly low-income, communities of color who have long suffered the effects of living adjacent to the I-95 corridor. The Clean Air Council's work to empower and engage these communities as informed decisionmakers on the air quality issues within their own neighborhoods is essential, and I offer my full support to their effort to center frontline communities in our environmental justice initiatives.

I fully support this project and encourage the EPA to fund this proposal.

Sincerely,

Helen Gym  
Philadelphia City Councilmember At-Large



## CITY OF PHILADELPHIA

### DEPARTMENT OF PUBLIC HEALTH

Dr. Cheryl Bettigole  
*Health Department Commissioner*

Jane Baker  
*Chief of Staff*

Air Management Services  
Kassahun Sellassie, PhD, PE  
*Director*

321 University Avenue, 2<sup>nd</sup> floor  
Philadelphia, PA 19104

Telephone (215) 685-7586  
Fax (215) 685-7593

Joseph Otis Minott, Esq.  
Executive Director and Chief Counsel  
Clean Air Council  
Philadelphia, PA

Re: The American Rescue Plan Grant Application

### **RFA NUMBER: EPA-OAR-OAQPS-22-01**

Dear Mr. Minott,

Philadelphia Air Management Services (AMS) is delighted to provide our strongest support for this grant application entitled **Enhanced Air Quality Monitoring for Communities** submitted to the U.S. Environmental Protection Agency (EPA) by the Clean Air Council (CAC) under the American Rescue Plan Grant EPA-OAR-OAQPS-22-01.

According to the various research and publications, Philadelphia has more residents living in deep poverty than any other large city in the United States. For many years the Council has worked to find funds to implement a program to better assess hazardous emissions in environmental justice neighborhoods throughout Philadelphia.

This grant meets that important need by offering those Philadelphia communities where most of the residents are low income, people of color, particularly vulnerable and live in neighborhoods with the highest concentration of hazardous air contaminants.

The AMS will work with the Council that will help implement this important project. The Council does a lot of work in neighborhoods throughout Philadelphia. The Council works with AMS to design and implement an effective outreach program with the goal of enhancing environmental literacy that will allow residents to better understand the connections between exposure to air toxics and health impacts in

their communities. The Council willingly commits to help ensure that there is meaningful involvement of community members in the design and implementation of all outreach strategies and programs.

This is a great opportunity for the City of Philadelphia. AMS urges EPA to provide funding for this grant opportunity in order that CAC can better perform the mission of protecting the City of Philadelphia from future air pollution risks commitment to work in partnership with stakeholders on this very important project to work on behalf of Philadelphia communities to ensure better environmental health in those neighborhoods

Sincerely

A handwritten signature in cursive script that reads "kassahun sellassie".

Kassahun Sellassie, Ph.D., P.E.  
Director, Philadelphia Air Management Services



COUNCIL  
DR. MONICA TAYLOR  
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Vice Chair  
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RICHARD R. WOMACK



COUNTY OF DELAWARE  
GOVERNMENT CENTER BUILDING

201 West Front Street  
Media, Pennsylvania 19063  
610.891.4270  
www.delcopa.gov

March 25, 2022

To Whom it May Concern:

Delaware County Council is delighted to provide our strongest support for this grant application entitled Enhanced Air Quality Monitoring for Communities submitted to the U.S. Environmental Protection Agency (EPA) by the Clean Air Council (CAC) under the American Rescue Plan Grant EPA-OAR-OAQPS-22-01.

Delaware County Council recognizes the concerns of residents whose health is impacted by industrial pollution in the County. This grant meets an important need by providing critical air quality monitoring in environmental justice (EJ) communities where residents live in neighborhoods with the highest concentration of hazardous air contaminants.

Through a partnership with Johns Hopkins University (JHU) the Clean Air Council has played a critical role in distributing PM monitors to residents in Marcus Hook, Trainer, and Chester. Delaware County enthusiastically supports Clean Air Council's application to expand monitoring of pollutants by installing additional sensors to monitor for PM, VOC, and benzene in this area. These sensors will fill a critical knowledge gap. The subsequent study results will support Delaware County in better understanding and mitigating the impact of toxic air pollution on vulnerable communities.

The Clean Air Council is committed to ensure that there is meaningful involvement of community members in the design and implementation of all outreach strategies and programs for this grant, and to work in partnership with County stakeholders, ensuring that the County is provided with all relevant data, publications, and study results. Delaware County will work collaboratively with the Clean Air Council and JHU to review preliminary data and final report and project materials, and explore options to address poor air quality.

This is a great opportunity for Delaware County. The County anticipates this study will provide much needed data to the County's Office of Sustainability and the Delaware County Health Department. Delaware County Council urges EPA to provide funding for this grant application in order to better protect vulnerable residents from air pollution risks, and ensure better environmental health in Delaware County communities.

Sincerely,

Dr. Monica Taylor  
Delaware County Council, Chair

Elaine Paul Schaefer  
Delaware County Council, Vice Chair

Kevin M. Madden  
Delaware County Council, Member

Christine A. Reuther  
Delaware County Council, Member

Richard R. Womack  
Delaware County Council, Member



212 W. Front Street Media, PA 19063

**Melissa Lyon**

DIRECTOR

(484)276-2100

RE: Enhanced Air Quality Monitoring for Communities  
RFA NUMBER: EPA-OAR-OAQPS-22-01

To Whom It May Concern,

The Delaware County Health Department is pleased to provide our support for the Clean Air Council's (CAC) application for Enhanced Air Quality Monitoring for Communities submitted to the U.S. Environmental Protection Agency (EPA) under the American Rescue Plan Grant EPA-OAR-OAQPS-22-01.

The Clean Air Council has been working to support Delaware County communities for many years. Since August 2021, the Clean Air Council has been working in partnership with Johns Hopkins University (JHU) on a pilot air quality monitoring program in environmental justice (EJ) communities along the I95 corridor in Delaware County. The Delaware County Health Department supports Clean Air Council's application to expand monitoring of pollutants by installing additional sensors to monitor for PM, VOC, and benzene in the area in our most vulnerable communities. These sensors will fill a critical knowledge gap and the subsequent study will provide much needed data to support the County to better understand and mitigate the impact of toxic air pollution on EJ communities.

The Delaware County Health Department urges EPA to provide funding for this grant application in order to better protect vulnerable residents from air pollution risks and ensure better environmental health in Delaware County communities.

Sincerely,

A handwritten signature in black ink, appearing to read "Melissa Lyon", with a stylized flourish at the end.

Melissa Lyon, MPH, CPH  
Director, Delaware County Health Department

LyonM@co.delaware.pa.us

**Internal Revenue Service**

**Department of the Treasury**

**P. O. Box 2508  
Cincinnati, OH 45201**

**Date:** July 14, 2000

**Clean Air Council  
135 S 19<sup>th</sup> St Ste 300  
Philadelphia, PA 19103**

**Person to Contact:**  
Felicia Johnson #31-04013  
Customer Service Representative  
**Toll Free Telephone Number:**  
8:00 a.m. to 9:30 p.m. EST  
877-829-5500  
**Fax Number:**  
513-263-3756  
**Federal Identification Number:**  
23-1683461

Dear Sir or Madam:

This letter is in response to your request for an updated copy of your organization's determination letter.

Our records indicate that a determination letter issued in February 1968, granted your organization exemption from federal income tax under section 501(c)(3) of the Internal Revenue Code. That letter is still in effect.

Based on information subsequently submitted, we classified your organization as one that is not a private foundation within the meaning of section 509(a) of the Code because it is an organization described in sections 509(a)(1) and 170(b)(1)(A)(vi).

This classification was based on the assumption that your organization's operations would continue as stated in the application. If your organization's sources of support, or its character, method of operations, or purposes have changed, please let us know so we can consider the effect of the change on the exempt status and foundation status of your organization.

Your organization is required to file Form 990, Return of Organization Exempt from Income Tax, only if its gross receipts each year are normally more than \$25,000. If a return is required, it must be filed by the 15th day of the fifth month after the end of the organization's annual accounting period. The law imposes a penalty of \$20 a day, up to a maximum of \$10,000, when a return is filed late, unless there is reasonable cause for the delay.

All exempt organizations (unless specifically excluded) are liable for taxes under the Federal Insurance Contributions Act (social security taxes) on remuneration of \$100 or more paid to each employee during a calendar year. Your organization is not liable for the tax imposed under the Federal Unemployment Tax Act (FUTA).

Organizations that are not private foundations are not subject to the excise taxes under Chapter 42 of the Code. However, these organizations are not automatically exempt from other federal excise taxes.

Donors may deduct contributions to your organization as provided in section 170 of the Code. Bequests, legacies, devises, transfers, or gifts to your organization or for its use are deductible for federal estate and gift tax purposes if they meet the applicable provisions of sections 2055, 2106, and 2522 of the Code.

Clean Air Council  
23-1683461

Your organization is not required to file federal income tax returns unless it is subject to the tax on unrelated business income under section 511 of the Code. If your organization is subject to this tax, it must file an income tax return on the Form 990-T, Exempt Organization Business Income Tax Return. In this letter, we are not determining whether any of your organization's present or proposed activities are unrelated trade or business as defined in section 513 of the Code.

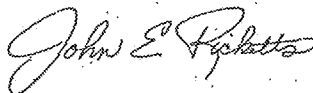
The law requires you to make your organization's annual return available for public inspection without charge for three years after the due date of the return. You are also required to make available for public inspection a copy of your organization's exemption application, any supporting documents and the exemption letter to any individual who requests such documents in person or in writing. You can charge only a reasonable fee for reproduction and actual postage costs for the copied materials. The law does not require you to provide copies of public inspection documents that are widely available, such as by posting them on the Internet (World Wide Web). You may be liable for a penalty of \$20 a day for each day you do not make these documents available for public inspection (up to a maximum of \$10,000 in the case of an annual return).

Because this letter could help resolve any questions about your organization's exempt status and foundation status, you should keep it with the organization's permanent records.

If you have any questions, please call us at the telephone number shown in the heading of this letter.

This letter affirms your organization's exempt status.

Sincerely,



John E. Ricketts, Director, TE/GE  
Customer Account Services



**COUNTY OF DELAWARE**  
**GOVERNMENT CENTER BUILDING**  
201 W. FRONT STREET  
MEDIA, PENNSYLVANIA 19063

**COUNCIL**

**Dr. Monica Taylor**  
Chair

**Elaine Paul Schaefer**  
Vice Chair

**Kevin M. Madden**  
**Richard Womack**  
**Christine Reuther**

**AREA CODE (610) 891-4453**  
**FAX NUMBER (610) 891-0647**

**Francine Locke**  
Chief Sustainability Officer

March 24, 2022

To Whom it May Concern:

The Delaware County Office of Sustainability is pleased to provide our support for the Clean Air Council's application for Enhanced Air Quality Monitoring for Communities submitted to the U.S. Environmental Protection Agency (EPA) under the American Rescue Plan Grant EPA-OAR-OAQPS-22-01.

The Clean Air Council has been working to support Delaware County communities for many years. Since August 2021, the Clean Air Council has been working in partnership Johns Hopkins University (JHU) on a pilot air quality monitoring program in environmental justice (EJ) communities along the industrialized I95 corridor in Delaware County. The Office of Sustainability supports Clean Air Council's application to expand monitoring of pollutants by installing additional sensors to monitor for PM, VOC, and benzene in the area. These sensors will fill a critical knowledge gap. The subsequent study results will provide much needed data to support Delaware County to better understand and mitigate the impact of toxic air pollution on EJ communities.

The Delaware County Office of Sustainability urges EPA to provide funding for this grant application in order to better protect vulnerable residents from air pollution risks, and ensure better environmental health in Delaware County communities.

Sincerely,

A handwritten signature in cursive script, appearing to read "Francine Locke".

Francine Locke  
Chief Sustainability Officer

lockef@co.delaware.pa.us

March 21, 2022

In support of Clean Air Council's proposal:

Project Title:- Community Based Air Quality Monitoring in Environmental Justice (EJ) communities along the Industrialized I-95 corridor in Southeast Pennsylvania

RFA Number – EPA-OAR-OAQPS-22-01

In an effort to address and combat pollution, air quality, and public health issues in Southwest Philadelphia, Empowered CDC works with a number of partnership organizations. One of those organizations is the Clean Air Council. The Clean Air Council has worked to support Empowered CDC by providing critical information about industrial facilities in Southwest Philadelphia, including new and renewed permit applications, public hearings, public comment periods, and deadlines. Empowered CDC is a 501(c)(3) organization and Registered Community Organization (RCO) in Southwest Philadelphia committed to social change, individual & community empowerment; one person, one community, one neighborhood at a time.

Clean Air Council also works with Empowered CDC to report neighborhood nuisances like illegal dumping, flooding and other environmental hazards to the appropriate government agency.

Empowered CDC trusts that Clean Air Council will adequately compensate local participants in this community air monitoring program while intently listening to the concerns of community members relative to public health, air pollution and overall environmental hazards.

If funded by EPA, Empowered CDC will support the Council's Community Based Air Quality Monitoring Program in the following ways:

1. Welcome Clean Air Council to our meetings to give updates and explain the purpose of the project and how residents can be involved.
2. Collaborate with the Clean Air Council on educational presentations and/ or meetings to inform members of the community about how they can get involved in community based air quality monitoring.
3. Connect the Clean Air Council with residents and businesses where monitors can be installed.
4. Work together on social media, press releases and earned media to inform a wider audience and increase awareness of both the project and the results.
5. Work together to devise strategies for using the data to further the outreach and advocacy work already underway in the community under the leadership of Empowered CDC.

We look forward to partnering with the Clean Air Council on this project, and hope that it will result in much needed additional air monitoring in Southwest Philadelphia.

Sincerely,  
Victoria Miles Chambliss  
Director, Empowered CDC, Inc.



---

Department of Geography and Urban Studies  
308 Gladfelter Hall  
1115 Polett Walk  
Temple University  
Philadelphia, PA 19122-6089  
Phone: 215-204-7692  
Fax: 215-204-7833  
Web: [www.temple.edu/gus](http://www.temple.edu/gus)

March 23, 2022

To Whom it May Concern:

Researchers from Temple University's Center for Sustainable Communities have been working with the Clean Air Council and other regional stakeholders to install Purple Air monitors across the region and also develop an NSF Smart and Connected Communities Planning Grant (Award number 2125375) to address cumulative environmental justice impacts in the City of Philadelphia. Russell Zerbo and the Clean Air Council have been consistent and reliable partners on past research projects so we look forward to continuing our partnership through this EPA grant.

In the context of this project, Temple University's Center for Sustainable Communities supports the Clean Air Council's proposal to conduct Community Based Environmental Air Quality Monitoring. This project will complement and strengthen the on-going collaborations that Temple's Center for Sustainable Communities has with the Clean Air Council. The Center for Sustainable Communities will support the Clean Air Council Community Based Air Quality Monitoring by serving as a consultant for the Clean Air Council's EPA project.

We enthusiastically support the Clean Air Council's EPA application.

Sincerely,

*Melissa R. Gilbert*

Melissa R. Gilbert, PhD  
Professor and Chair, Geography and Urban Studies  
Director, Center for Sustainable Communities  
Temple University

A handwritten signature in black ink, appearing to read 'Christina D. Rosan'.

Christina D. Rosan, PhD  
Associate Professor, Geography and Urban Studies  
Faculty Fellow, Center for Sustainable Communities  
Temple University



# Marcus Hook Area Neighbors For Public Health

marcushookneighbors@gmail.com

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March 17, 2022

To Whom it May Concern:

Formed in early 2020, the Marcus Hook Area Neighbors for Public Health is a group of residents from Marcus Hook, Trainer, Lower Chichester and Upper Chichester who are concerned about the public health impacts of pollution from local refineries, petrochemical plants, and other industrial infrastructure. We believe we have a right to clean air, pure water, and a healthy environment. Our mission is to educate ourselves and others about pollution impacts to public health and to advocate for health and safety measures to protect our community's workers, families, and especially our children.

One of the greatest needs in the county right now is data. There are only two DEP air monitors in all of Delaware County, one in Marcus Hook, and one in Chester. These monitors only take a snapshot reading once every six days. This is wholly inadequate to understand what residents are breathing in on a daily basis. Additionally, because the county has lacked a public health department for generations, we have no data on the types of health impacts that residents have been experiencing for decades. And this has only gotten worse over the last few years with the expansion of the refineries and petrochemical plants. Residents complain of headaches, nose bleeds, asthma, cancer, burning eyes, nose and throat etc. Children are impacted the most as their bodies are smaller and growing. They are the canaries in the coal mine, so to speak. We need to pay attention to what is happening here and take action to change it.

Marcus Hook Area Neighbors for Public Health has been working in close partnership with the Clean Air Council for over two years. The Clean Air Council has supported us in successfully organizing our group and hosting a number of community events including a creek clean up and a march from Chester to Marcus Hook for environmental justice. In August 2021, the Clean Air Council introduced us to Dr. Peter DeCarlo from Johns Hopkins University and we actively participated in a pilot program to do more air monitoring in the area. Several of us now have solar powered PM air monitors at our homes that are part of a JHU study.

We are excited that the Clean Air Council is pursuing EPA funding to expand our current air

monitoring. This is critically needed work that will inform the county, the newly formed health department, the DEP, and the EPA. We are glad this issue is getting the much needed and long-awaited attention that we feel is necessary. Leaders of the Marcus Hook Neighbors group have been an integral part of designing the current project plan with the Clean Air Council. If funded, leaders and members of this group will be essential to implementing the community based air quality monitoring program.

We look forward to a long term partnership with the Clean Air Council and to collaborating closely with Johns Hopkins University, the Delaware County Council and the new Delaware County Health Department to finally address this pressing public health crisis. Marcus Hook Neighbors for Public Health will support in any way we can, including outreach and engagement of more community and neighbors-based groups, schools, and churches, etc in the area.

Thank you for your consideration and best regards,  
Lorraine Daliessio, on behalf of Marcus Hook Area Neighbors for Public Health

March 18, 2022

In support of Clean Air Council's proposal:

Project Title:- Community Based Air Quality Monitoring in Environmental Justice (EJ) communities along the Industrialized I-95 corridor in Southeast Pennsylvania

RFA Number – EPA-OAR-OAQPS-22-01

In an effort to address and combat pollution, air quality, and public health issues in Southwest Philadelphia, Eastwick United works with a number of partnership organizations. One of those organizations is the Clean Air Council. The Clean Air Council has worked to support Eastwick United by providing critical information about industrial facilities in Southwest Philadelphia, including new and renewed permit applications, public hearings, public comment periods, and deadlines.

Clean Air Council also works with Eastwick United to report neighborhood nuisances like illegal dumping, flooding and other environmental hazards to the appropriate government agency.

Eastwick United trusts that Clean Air Council will adequately compensate local participants in this community air monitoring program while intently listening to the concerns of community members relative to public health, air pollution and overall environmental hazards.

If funded by EPA, Eastwick United will support the Council's Community Based Air Quality Monitoring Program in the following ways:

1. Welcome Clean Air Council to our meetings to give updates and explain the purpose of the project and how residents can be involved.
2. Collaborate with the Clean Air Council on educational presentations and/ or meetings to inform members of the community about how they can get involved in community based air quality monitoring.
3. Connect the Clean Air Council with residents and businesses where monitors can be installed.
4. Work together on social media, press releases and earned media to inform a wider audience and increase awareness of both the project and the results.
5. Work together to devise strategies for using the data to further the outreach and advocacy work already underway in the community under the leadership of Eastwick United.

We look forward to partnering with the Clean Air Council on this project, and hope that it will result in much needed additional air monitoring in Southwest Philadelphia.

Sincerely,

*Carolyn Masely, Executive Director  
Eastwick United CAC*

**Community Based Air Quality Monitoring in Environmental Justice Communities along the I-95 corridor in  
Southeast Pennsylvania**

**Project Narrative and Plan  
March 2022**

Project Title:- Community Based Air Quality Monitoring in Environmental Justice (EJ) communities along the Industrialized I-95 corridor in Southeast Pennsylvania

RFA Number – EPA-OAR-OAQPS-22-01

Prepared by: Clean Air Council

**Applicant Information:**

Organization - Clean Air Council

Address - 135 S 19th St #300, Philadelphia, PA 19103

Primary Contact - Ptah Gabriele 215.567.4004 x117 pgabrie@cleanair.org

DUNS - 046020044

Set-Aside: Community Based Set Aside

Brief Description of Applicant Organization: Clean Air Council (the Council) is a member-supported environmental and health organization serving Pennsylvania and surrounding states. The Council's mission is to protect and defend everyone's right to a healthy environment. The Council works through a broad array of related sustainability and public health initiatives using public education, community action, government oversight, and enforcement of environmental laws.

Project Partner(s): Marcus Hook Area Neighbors for Public Health, Chester Residents Concerned for Quality Living (CRCQL), Eastwick United, Empowered CDC, Energy Justice Network, Johns Hopkins University, Center for Sustainable Communities at Temple University

Project Location: I-95 Corridor from Marcus Hook through Trainer and Chester in Delaware County PA up through Eastwick in Southwest Philadelphia

Air Pollutant Scope: PM<sub>2.5</sub>, VOCs (including benzene)

**Budget Summary:**

<b>EPA Funding Requested</b>	<b>Total Project Cost</b>
\$419,446	\$419,446

Project Period: 10/01/2022 to 09/30/2024

Short Project Description: The Council seeks to develop and expand existing community-based air monitoring pilot projects in environmental justice communities along the industrialized I-95 corridor in Delaware County and Southwest Philadelphia, PA.

# CLEAN AIR COUNCIL

## 1. Project Summary and Approach:

### **A. Overall Project:**

The Council is seeking funding from the Environmental Protection Agency (EPA) to develop an Air Quality Monitoring (AQM) program along the industrialized I-95 corridor in the communities of Marcus Hook, Trainer, and Chester in Delaware County and Eastwick in Southwest Philadelphia, PA. The long-term goals of this program are to improve air quality, increase protections for frontline communities from toxic chemicals and pollutants, and improve public health.

Clean air is critical to public health, but for EJ communities in Southeastern Pennsylvania, pollution from refineries, incinerators, transportation, petrochemical processing and storage, and other industrial sources is a constant threat to health and quality of life. The local airshed is plagued by poorly-planned and ever expanding industrial infrastructure, frequent violations of environmental laws, and a failure to assess cumulative impacts of multiple co-located polluting facilities in and around residential neighborhoods. As polluting facilities adjacent to communities expand, residents have reported increased flaring, fumes, visual releases, and health symptoms such as burning eyes, irritated throats, persistent headaches, nose bleeds, skin irritations, asthma, other respiratory illnesses, and cancers. Yet very little data has been collected to determine what pollutants in the air might be contributing to health impacts residents are experiencing.

For many years, the Council has worked with communities in Southeastern Pennsylvania and Delaware on air monitoring and community engagement projects. Since August 2021, the Council has worked in collaboration with Johns Hopkins University (JHU) on a pilot air monitoring study in Marcus Hook, Trainer, and Chester in Delaware County to successfully install a small number of solar powered particulate matter (PM) monitors at private residences. With input and support from residents, JHU also completed a month-long study of measurements for hazardous air pollutants (HAP) and volatile organic compounds (VOCs). The Council organized and educated residents about the impacts from pollution on public health, and the importance of monitoring and reporting pollution events. Currently involved residents have expressed a specific desire to expand resources for local air monitoring supported by community organizing and education.

The Council proposes to expand our existing pilot program in order to allow residents to continuously monitor the air quality along the industrialized I-95 corridor from Marcus Hook, Trainer, and Chester in Delaware County up through Eastwick in Southwest Philadelphia, in the area around the former Philadelphia Energy Solutions (PES) refinery. The project will focus on PM monitoring with low-cost air sensors, while air toxics will be initially evaluated with VOC sensors and then more accurate UniTec sensors specifically targeting the known carcinogen benzene. Open source data and digestible air quality data visualizations and communications from this project will enhance residents' understanding of air pollution and support community organizing and advocacy efforts to reduce industrial pollution and improve public health. The Council will work closely with JHU and our community partners to install up to 60 PurpleAir monitors for PM and VOCs at homes, businesses, and community hubs (e.g., libraries) throughout the area. The data from these PM/VOC monitors will be continuous and open source, available twenty four hours a day in real time via a website and app. The Council is already using PurpleAir brand low-cost PM monitors in Southeast Pennsylvania and will continue to do so as residents are very comfortable with the software and hardware associated with this brand of monitor. In addition, the Council will install approximately ten higher sensitivity UniTec benzene monitors throughout the area to support the detection of plumes containing VOCs and HAPs.

In addition to installing monitors throughout the impacted area, the Council will work with our community partners to launch community-based outreach and education programs. The Council uses an empowerment-based approach, providing residents and local neighborhood-based advocacy groups with the knowledge, skills, and tools to monitor local air, report pollution issues, educate neighbors, develop campaign strategies, and advocate for change. The Council will work with our local partners to provide air monitor training and also tailored skills-based training (e.g., how to talk to decision makers about these issues or communicate

about these issues in the media). Throughout the two year program, Council staff will build in and encourage many opportunities for resident leadership development. Residents will learn how to use the air quality data they gather to advocate to local and state decision makers for more protective policies and mitigation measures to reduce the harmful effects of pollution on public health.

The Council will work with our community partners to host at least one in-person public community meeting in each of the three impacted communities to launch the air monitoring program and generate community excitement. Council organizers will work with partners to host subsequent public workshops every six months - a total of 12 public workshops with four in each of the three communities over two years. Additionally, the Council staff will organize at least one monthly meeting with each individual community group. Workshops and individual organization meetings will help identify local pollution concerns, engage residents to host air monitors, and strategize about education and advocacy efforts. As the project progresses, workshops and meetings will emphasize discussions of the air quality data gathered as a part of this project. Project staff will work with residents to create a variety of communication materials (e.g., posters, online resources) to illustrate air quality data and public health concerns as well as information about local pollution sources and ways residents can advocate for change.

The Council will also work in partnership with JHU to analyze the air quality monitoring data, and compile a report for key stakeholders, including Delaware County Council, Delaware County Health Department, Philadelphia City Council, and Philadelphia Department of Public Health. The Council will also hire an external quality assurance consultant to ensure accuracy of the data and analysis throughout the project. The Council will support residents and key stakeholders in working collaboratively towards policy changes and enforcement actions that could reduce air pollution risk and improve public health outcomes.

#### **B. Project Significance:**

The American Lung Association's 2020 "State of the Air" report determined that the Philadelphia metro area ranked as the 12th most polluted region in the nation for its year-round average levels of fine particle pollution. The region ranked 23rd most polluted for days with high levels of ozone (smog). In 2021, the American Lung Association gave Delaware County a "D" for ground-level ozone (smog), which exacerbates asthma and causes asthma attacks. Philadelphia earned an "F."

For the EJ communities of Marcus Hook, Trainer, Chester, in Delaware County and Eastwick in Southwest Philadelphia, pollution from refineries, incinerators, transportation, and other industrial sources, like petrochemical storage and processing, is a constant threat. Residents who live along the industrialized I-95 corridor in Delaware County and Southwest Philadelphia have voiced extensive concerns about industrial air pollution and subsequent impacts to their health. The failure to safeguard clean air directly impacts the health of low-income communities and communities of color.

In Marcus Hook borough, residents live in close proximity to several petrochemical processing plants. As these facilities have expanded over the past several years with the growth of natural gas liquids exports, residents have noticed a substantial increase in flaring, fumes, visual releases into the air, and accompanying health symptoms. Residents report burning eyes and throats, persistent headaches, nose bleeds, skin irritations, asthma and other respiratory illnesses, and cancers. Next door in Trainer borough, residents live across the street from an oil refinery, and families report nosebleeds in children, particularly at night. Sample air monitoring by JHU for HAPs and VOCs in September 2021 showed increased levels of benzene in neighborhoods adjacent to the refinery. For the purposes of this project, the Council will treat Marcus Hook and Trainer as one community.

Just north along the I-95 corridor, in the city of Chester, residents have faced decades of environmental racism. Chester is home to a sewage sludge incinerator as well as the nation's largest waste incinerator, burning up to 3,510 tons of municipal and industrial waste every day. These two facilities produce around the clock emissions accompanied by foul odors. A 2010 study by the Center for Excellence in Environmental Toxicology at the University of Pennsylvania found 38.5% of children in Chester have asthma, nearly five times the national average. Initial air quality monitoring by JHU showed elevated levels of PM, as well as plumes of formaldehyde, benzene,

and toluene in residential neighborhoods. Residents of Chester are impacted not only by the waste incinerators located in Chester, but by several other co-located industrial facilities and by the refineries and petrochemical plants upwind in Marcus Hook and Trainer. Residents of Chester experience extremely high rates of asthma and report a myriad of other physical health impacts that they attribute to poor air quality.

The Eastwick community of Southwest Philadelphia is the closest residential neighborhood to Philadelphia's single largest air pollution source, the Philadelphia International Airport. Southwest Philadelphia is also home to the Schuylkill River Tank Farm (SRTF), a petrochemical storage facility, while the remainder of the South Philadelphia oil refinery has been decommissioned. The SRTF remains a major source of air pollution in Philadelphia and the five-county Southeast Pennsylvania region, which is in nonattainment of federal ground-level-ozone standards and a maintenance region for particulate matter pollution. The SRTF is connected to the Marcus Hook refinery by an underground pipeline, which runs directly beneath the Eastwick community and the John Heinz Wildlife Refuge, a legacy superfund site and the location of a 2006 oil spill from this pipeline. In addition to the SRTF and the Philadelphia International Airport, Southwest Philadelphia also hosts a contaminated soil incinerator as well as a significant amount of smaller pollution sources like scrap yards and auto-repair shops where fires frequently occur.

For the past two years, the Council has worked with residents in these communities to develop and support neighborhood-based groups, educate residents about the impacts of pollution on public health, pilot air monitoring programs and teach residents how to report pollution issues. These initiatives have been integral in empowering concerned residents to learn about pollution sources in their communities, build connections with other concerned neighbors, and advocate to government officials such as municipal leaders, the county office of environmental crimes, and the Pennsylvania Department of Environmental Protection (DEP).

The Council's community-based air quality monitoring program will help local residents to increase their knowledge of local air quality and the specific health conditions experienced in individual communities, likely influenced by Southeastern Pennsylvania's significant air pollution. This project will result in increased resident understanding of air monitoring, local air quality data, environmental hazard reporting, and transparency regarding local industrial activities and permitting. The project will also result in a more engaged and empowered community with dedicated public meetings on local air quality, and increased public participation in local and state regulatory processes around permitting and policy decisions. In the long-term, the project will result in improved permits and policies, improved air quality, pollution reductions, and improved public health outcomes.

## **2. Community Involvement:**

### **A. Community Partnerships:**

Working in partnership with community-based groups is a primary aspect of the Council's work. The Council believes in an empowerment based approach, where residents and resident leaders are the key strategists and decision makers based on their expert knowledge of their community's unique assets and needs. Where resident groups already exist, the Council has developed relationships to better understand how the Council's resources might support community-based organizing and advocacy already underway. In communities where residents have felt isolated, their concerns ignored, and uncertain about how to proceed, the Council has worked to support residents in building neighborhood-based groups, developing local leadership and organizing skills, expanding outreach efforts to engage new residents, developing a strategy based on the community's concerns and goals, and supporting residents in developing an advocacy campaign. The Council also helps facilitate collaboration between existing neighborhood groups to more effectively achieve shared goals.

For the proposed Community-based Air Quality Monitoring Program in Southeast Pennsylvania, the Council will work with community partners and supporting organizations in each impacted community. Community partners have already played a critical role in the design of the proposed project and will be engaged at every stage of the proposed project. Partners have already contributed the following to this proposal:

- 1) Determining the communities in which the Council will focus our air monitoring program.

- 2) Deciding which pollutants the program will monitor.
- 3) Influencing the choice of air monitor employed to ensure ease of use and access to data.
- 4) Developing a strategy campaign for educating and organizing the larger community around the data derived from this program.
- 5) Visioning long-term desired outcomes from a community-based air monitoring and advocacy campaign.

Community partners such as Marcus Hook Area Neighbors for Public Health, Chester Residents Concerned for Quality Living (CRCQL), Eastwick United, and Empowered CDC will keep playing the lead role in developing the outreach campaign to educate the broader community and engage residents who wish to have a monitor installed at their private residence, business or other local institution. Community partners will also guide the strategy of widely sharing data obtained from monitoring, and will be a critical voice in advocating for meaningful policy solutions, pollution mitigation measures and public health improvements in partnership with local government, environmental, and health agencies.

The Council will work with community partners to not only monitor local air quality, but also to document local public health concerns and help residents connect with local and state governments to advocate for the reduction of air pollution from nearby sources. A key aspect of this project, and a focus of both public workshops and partner meetings, will be to identify the greatest air pollution hazards and public health concerns, both in individual communities and the collective I-95 corridor in Southeastern Pennsylvania.

The Council will work with our project partners to conduct 12 public health and air monitoring workshops over two years in the three targeted communities: Chester and the Marcus Hook/Trainer area in Delaware County and the Eastwick community in Southwest Philadelphia. Workshops will serve as spaces for project participants to plan air monitoring efforts, disseminate gathered data, identify pollution sources of concern, and discuss public opportunities to voice those concerns such as during public hearings, government meetings, and other public events. The Council staff will work with partner organizations to appropriately communicate local air pollution data and public health concerns, while strategizing to identify the most impactful venues and media to distribute this information, including public meetings hosted by government agencies and public hearings about specific proposals for permits for new or existing sources of air pollution.

#### **B. Community Engagement:**

The Council has been working in Eastwick and the larger Southwest Philadelphia region for many years assisting residents in making environmental hazard reports and participating in local permitting and zoning processes. The Council works with Empowered CDC to officially report illegal air pollution, dumping, and land-use violations, while helping residents participate in complex zoning cases that continue to allow industrial facilities to operate in residential neighborhoods. The Council has worked with both Empowered CDC and Eastwick United to help residents submit public comments requesting increased air monitoring around transportation pollution from local shipping hubs, as well as demanding stricter enforcement of environmental laws governing local pollution sources.

The Council has also been working closely with community partners and residents in Chester and the greater Marcus Hook area in Delaware County for the past several years. The Council has worked to support Chester Residents Concerned for Quality Living (CRCQL- pronounced “circle”) and Energy Justice Network by providing critical information about industrial facilities in Chester, including new and renewed permit applications, public hearings, public comment periods, and deadlines. The Council attends bi-weekly community meetings and participates in CRCQL-led events. The Council connected CRCQL and Chester residents with JHU’s pilot air community and community health risk assessment project. As a result, Chester now has several solar powered PM monitors set up across the city, and a month of air quality data, which demonstrates residents are also exposed to plumes of VOCs, including toluene, benzene, and formaldehyde.

In the greater Marcus Hook area, the Council has worked to build relationships with residents who were concerned about increased pollution and health symptoms. The Council supported these residents in developing their own neighborhood-based group to address their pollution and public health concerns. That group, the Marcus Hook Area Neighbors for Public Health (MHANPH), is now one of our key community partners, with



resident leaders actively advocating for clean air and engaging in learning and teaching others about the impacts of pollution on public health. Leaders of the group, with the Council's support, have been educating residents about how to report pollution and public health concerns directly to government officials.

Marcus Hook Area Neighbors for Public Health, CRCQL, Energy Justice Network, Empowered CDC and Eastwick United will each play a critical role in the Council's proposed Air Quality Monitoring Program. Our community partners will work in collaboration with the Council and JHU to identify pollution sources of concern and determine where in the community monitors will be placed. The Council and community partners will host meetings to explain the purpose of the project to a wider group of residents and share how residents can get involved, including hosting a monitor at their home or business. The Council and our partners will launch an awareness campaign about the project using social media, flyers, community meetings, mailings, ads, and other strategies to engage residents and generate awareness of the project.

Additional partners in this proposed project include the Johns Hopkins University (JHU) Department of Environmental Health and Engineering and the Temple University Center for Sustainable Communities. The Council has been working in collaboration with JHU for the past nine months to install solar powered PM monitors in Chester, Trainer, and Marcus Hook. JHU has consulted with the Council on this proposed Air Quality Monitoring project and will continue to serve in an advisory capacity throughout the project term, including support with study design, monitor placement, data processing, quality assurance, and communication of the results of the measurements. The Council and JHU will analyze and compile all air pollution data and pollution events into a report which, along with JHU's other air quality assessments, will provide a comprehensive examination of pollutants in the air and potential health impacts associated with those pollutants. The Council will then work with our community partners to develop an education and outreach campaign based on the report to advocate for meaningful policy solutions in partnership with local government, environment, and health agencies.

The Council has previously worked with the Center for Sustainable Communities at Temple University on advocacy-focused multimedia such as videos with residents describing local pollution and public health issues. The Center for Sustainable Communities at Temple University will support the Council and our community partners in strategizing how local pollution and public health concerns can be documented and shared widely through multimedia content. The Center will work with the Council and our community partners to develop effective ways to communicate project activities and products to the public and governmental decision makers.

Council staff will specifically solicit input from residents about the most impactful ways to share information in their communities and create communication strategies and materials specifically tailored to individual neighborhoods. This project will include dedicated meetings with all participating community organizations to discuss the images, photos and language depicting air quality data, local pollution sources and existing public health conditions. Project staff will work throughout the project to create multimedia air quality data and public health communication materials to both advertise and increase interest in project activities and increase the effectiveness of project participants' advocacy. Project staff will also work with participating residents to discuss the most effective venues for sharing communication materials such as newspapers, social media, community meetings, public events and governmental meetings.

### **3. Environmental Justice and Underserved Communities:**

The Pennsylvania DEP classifies neighborhoods as "environmental justice areas" if 20% or more of the population live in poverty and/or 30% or more are people of color. Environmental Justice (EJ) communities between route I-95 and the Delaware River breathe some of the most polluted air in the country.

Marcus Hook Borough is a small community at the southernmost tip of Delaware County, along the Delaware River. Its population of 2,400 residents is mostly working class and poor with an average household income of \$36,250, according to U.S. census data from 2020. 20.2% of residents live at or below the poverty line. 26.5% of residents are Black, Latino, Asian or other non-white. There is little distinction in Marcus Hook borough between industrial and residential zones. Private residences are located directly across the street from the Marcus Hook

Industrial Complex (MHIC), which processes ethane, propane, and butane. Several neighborhoods are sandwiched between MHIC and the Monroe refinery in neighboring Trainer borough.

According to U.S. census data for 2020, the City of Chester is a predominantly Black community, currently home to approximately 32,000 residents, 80.8% of whom are persons of color. The median household income is \$32,867 and 30.4% of residents live at or below the poverty line. Chester is home to the largest waste incinerator in the nation, as well as a sewage sludge incinerator, and several other industrial facilities. A 2010 study by the Center for Excellence in Environmental Toxicology at the University of Pennsylvania found 38.5% of children in Chester have asthma, nearly five times the national average. In addition to an asthma crisis, residents of Chester report foul odors, headaches, nausea, and other respiratory symptoms, illnesses, and cancers.

The Eastwick neighborhood of southwest Philadelphia is a documented EJ area home to the Lower Darby Creek Area Superfund site as well as several major sources of air pollution, including the Philadelphia International Airport and the Schuylkill River Tank Farm, in addition to smaller industrial pollution sources like the Clean Earth of Philadelphia contaminated soil incinerator and the Synagro sewage caking facility. Eastwick is also home to many unpermitted auto shops and scrap yards and is also immediately adjacent to large stretches of I-95. The Eastwick neighborhood directly overlaps with the 19153 zip code where 76.1% of residents are Black and 21.1% of residents live below the federal poverty line.

These communities have been historically distressed and disadvantaged by the co-location of multiple polluting facilities intentionally planned and built in low-income communities and communities of color. The placement of the nation's largest waste incinerator in Chester is widely considered one of the most egregious examples of environmental racism in the country. Even though Pennsylvania DEP has consistently identified Chester as an EJ area and even held the state's first-ever hearing on environmental justice in the City of Chester approximately a decade ago, DEP allowed the Covanta Waste Incinerator to increase its smog-causing nitrogen oxide emissions in 2020, despite the area's extreme ground-level-ozone pollution. The Council worked with Chester residents to oppose this pollution increase during public hearings on Covanta's Title V permit renewal public hearing in September 2021.

Chester, Marcus Hook, Trainer and Eastwick residents have suffered immense public health damages because of the clustering of industrial pollution sources along the I-95 corridor in southeast Pennsylvania. These communities require further assistance to effectively participate in local decision-making to address their air pollution concerns. The continued increase of air pollution and consistent expansion of industrial facilities in this area clearly demonstrates that current environmental justice efforts are not yielding positive public health outcomes, and residents could greatly benefit from local air quality data as well as technical expertise and community organizing support.

#### **4. Environmental Results – Outputs, Outcomes and Performance Measures:**

##### **A. Expected Project Outputs and Outcomes**

Projected Short-term Outcomes Include:

1. New air quality data from 60 outdoor PM/VOC monitors on homes, businesses and institutions within Chester, Marcus Hook/ Trainer, and Eastwick.
2. Enhanced understanding of each community's concerns about specific pollutants and health issues.
3. Increased community knowledge of pollution impacts on public health and quality of life.
4. Enhanced community-informed tools and resources to visualize existing local air quality.
5. Increased understanding by local and state decision makers of the environmental health impacts of industrial facilities in Delaware County and Southwest Philadelphia, and the need for additional protections for vulnerable communities.

Projected Intermediate Outcomes Include:

1. Increased community engagement in environmental permitting decisions related to air pollution sources within the project's focus.
2. Improved community cohesion and alliances between similar communities that will further aid project outreach efforts and build capacity for continued public health advocacy.
3. Reductions in air pollution required in permitting of local air pollution permit decisions and other development-related decisions, as a result of increased public engagement, research, and local air pollution data
4. Improvements in local or state policies that lead to air pollution reductions.
5. Increased monitoring of pollution incidents by agencies and enforcement actions taken as a result of community reporting about potential air pollution incidents.

Projected long-term outcomes include:

1. Reduction of PM and VOC emissions from industrial facilities in the focus communities.
2. Reduction of ambient concentrations of PM and VOCs.
3. Reduction of exposure of residents to PM and VOC emissions.
4. Improved public health outcomes (e.g., reduced asthma attacks and hospitalizations).

### **B. Performance Measures and Plan**

This two-year project will be divided into four six-month periods with specific goals for each time period in each target area. At every stage of this proposal the Council will ask for participant input on the overall structure of the project and individual project activities to ensure that impacted residents see value and positive outcomes in the proposed program.

### **C. Timeline and Milestones**

This project will be divided into four six-month sections. Each 6-month section will include at least one public community event in each target area in addition to organized project participation in local governmental events and hearings as well as community events such as public health fairs.

#### **Month 1 - 6:**

- Conduct extensive outreach to target communities (Chester, Marcus Hook/Trainer and Eastwick) to introduce the project.
- Identify additional residents, organizations and institutions in each focus area to engage through the project and work with them to determine local public health concerns, air pollutants they are most concerned about, pollution sources they are most concerned about, and potential locations for monitors.
- Hold one introductory public community event in each target area.

#### **Month 7 - 12:**

- Install outdoor PM/VOC monitors.
- Determine the most effective uses for the more accurate UniTecVOC sensors.
- Work with project partners to support them in holding one workshop in each of the four target areas to describe the initial placement and usefulness of air monitors associated with the project while researching how to appropriately depict existing public health concerns and air quality for maximum air pollution reductions, focused both on the format of communications (for example: audio or video) and the use of such communications in a variety of venues.
- Work with partners to create community-driven air quality visualizations as well as talking points and advocacy strategies for residents to use during their participation in local government permitting and regulatory processes.

#### **Month 13 - 18:**

- Organize one public meeting in each of the target areas to discuss ongoing project activities with previously participating residents as well as individuals new to the program.

- Work with project partners to continue installing monitors and to identify new air monitor hosts.
- Work with academic partners to analyze the data on a regular basis and an external quality assurance consultant to review the monitoring data and analysis.
- Connect individuals and groups who have been gathering local air quality data to share best practices with each other and create cohesion among project participants, establishing possible linkages in documented public health conditions and concerns and air quality data between all four target areas.
- Support project participants in sharing locally gathered air quality data with local and state decision makers
- Create innovative displays of local air quality and health conditions.
- Generate video, audio, and other engaging depictions of participating residents' experience with local pollution issues and their attempt to address those with local institutions and governments.

#### **Month 19 - 24:**

- Compile a variety of visual and audio representations of the results of the project under the direct influence of project participants.
- Disseminate project results in the format and medium agreed upon by participating residents.
- Organize one public meeting in each target area to announce the conclusion of the project and preliminary project results and receive input from project participants and other impacted residents on project activities, data demonstrations, local health conditions and participation in local decision making processes.
- Use input from discussions with project participants and work with partners to create a final project report aimed to support local residents' continued efforts to improve air quality by communicating about these issues and needed changes with neighbors and public officials.
- Work with academic partners to analyze the data on a regular basis and an external quality assurance consultant to review the monitoring data and analysis.
- Work with partners to collect feedback from project partners and participants in order to critically evaluate the project.
- Discuss strategies for increased efficacy and the longevity of the project outside the two-year time frame.
- Gauge interest of impacted community members and partner groups in applying for future funding opportunities aimed at furthering the project's efforts to protect public health.

### **6. Programmatic Capability and Past Performance:**

#### **A. Past Performance**

The Council has an active air monitoring project in Philadelphia associated with Temple University, funded by the National Science Foundation, as well as active grants funded by the Delaware Health Sciences Alliance, and the City of Philadelphia's Air Management Services. The Council also received and executed two separate grants from the William Penn Foundation to protect public health and the environment in the City of Philadelphia and the Delaware River Watershed (including one for \$495,000 over two years).

Clean Air Council and Temple University successfully applied for and received an active planning grant from the National Science Foundation entitled "Planning for Resilience and Equity through Accessible Community Technology: Developing a Community-Led Planning Tool for Climate Readiness," that is currently being executed in Philadelphia, including local low-cost air monitoring and community organizing activities aimed at reducing environmental hazards and improving local public health.

The Council received and is currently executing a low-cost air monitoring program in the state of Delaware funded by the Delaware Health Sciences Alliance to distribute 50 particulate matter monitors across the state of Delaware.

Clean Air Council has consistently received an annual grant from the Philadelphia Department of Public Health's Air Management Services to educate Philadelphia residents about the dangers of air pollution and how to report air pollution to the City of Philadelphia.

The Council recently received and executed a \$110,000 9-month grant from the William Penn Foundation to assist South and Southwest Philadelphia residents in participating around permitting and decisions related to the cleanup of the former South Philadelphia refinery. The Council performed public planning workshops and hosted several in-depth planning meetings to receive local and institutional input on the cleanup of the severely contaminated refinery land and engaged residents and groups in commenting on permits for industrial facilities and the cleanup of the former refinery. The Council was successful in changing policies and analysis related to the refinery cleanup to be more health-protective.

The Council has received and successfully executed numerous grants from the William Penn Foundation to decrease water pollution and improve public health in the Delaware River Watershed, including a two year grant for \$495,000 that ended in January 2021. Through this work, the Council engaged thousands of residents in environmental decision making processes and successfully advocated for construction practices and policies that reduce environmental degradation.

#### **B. Reporting Requirements**

The Council has regularly reported successful project outcomes to Temple University, Air Management Services, and the William Penn Foundation detailing program results, which for several grants included air monitor installations. Council staff documented all project activities, outputs, outcomes, and spending to the funders in detailed narrative and financial reports. These successful grant outcomes have consistently resulted in grant renewals and continued interest from funders to perform this unique and necessary work. The Council meets all reporting requirements set out in grant agreements or as agreed upon with the funder. It submits timely and accurate interim and final reports to government and private foundations.

#### **C. Staff Expertise**

The Council staff possesses an incredible range of skills and talents from community organizers, researchers and writers, lawyers, engineers, masters of public health and planning experts. Clean Air Council staff also have many years of experience working with both community groups and residents; local, state and federal governments, and academic institutions. Council staff administering this grant will be Community Organizer Echo Alford, Advocacy Coordinator Eve Miari, Advocate Russell Zerbo, Advocacy Director Matt Walker, Engineer Karl Koerner, and Executive Director and Chief Counsel Joe Minott. See attachments for staff bios and resumes.

### **7. Budget:**

#### **A. Budget Detail and B. Reasonableness of Costs**

<b>Line Item &amp; Itemized Cost</b>	<b>EPA Funding</b>
<b>Personnel</b>	
(1) FTE Executive Director @ \$88/hr x 1.75 hrs/wk x 96 wks	\$14,784
(2) FTE Advocacy Director (Project Manager) @ \$43/hr x 3.5 hrs/wk x 96 wks	\$14,448
(3) FTE Advocacy Coordinator @ \$35/hr x 17.5 hrs/wk x 96 wks	\$58,800
(4) FTE Engineer, Technical Support @ \$32/hr x 8.75 hrs/wk x 96 wks	\$26,880
(5) FTE Community Advocate @ \$24/hr x 11.55 hrs/wk x 96 wks	\$26,611

(6) 1/2 FTE Marcus Hook/Trainer Community Organizer @ \$26/hr x 8.75 hrs/wk x 96 wks	\$21,840
(7) 1/2 FTE Chester Community Organizer @ \$26/hr x 17.5 hrs/wk x 96 wks	\$43,680
(8) 1/2 FTE Eastwick Community Organizer @ \$26/hr x 17.5 hrs/wk x 96 wks	\$43,680
(9) FTE Communications/Graphic Design @ \$31/hr x 2.8 hrs/wk x 96 wks	\$8,333
<b>Total Personnel</b>	<b>\$259,056</b>
<b>Fringe Benefits</b>	
18.48% of Total Personnel (\$259,056) for retirement, health benefits, FICA, SUI	\$47,874
<b>Total Fringe Benefits</b>	<b>\$47,874</b>
<b>Travel</b>	
(1) Zipcar rental and gas for community organizers and community advocate: \$100 x 15 meetings	\$1,500
(2) Round-trip train tickets @ \$10 x 72 meetings	\$720
<b>Total Travel</b>	<b>\$2,220</b>
<b>Equipment</b>	
60 purple air monitors with VOC sensors @ \$300 each	\$18,000
10 UniTec VOC sensors @ \$2,500 each	\$25,000
<b>Total Equipment</b>	<b>\$43,000</b>
<b>Supplies</b>	
	\$0
<b>Total Supplies</b>	<b>\$0</b>
<b>Contractual</b>	
External quality assurance consultant to review monitoring data and analysis	\$8,000
<b>Total Contractual</b>	<b>\$8,000</b>
<b>Other</b>	
Printing for postcards, flyers, posters for recruitment and education about project results	\$8,000
Social media, digital and newspaper advertisements to recruit participants and educate	\$8,000
Rental fees for community meetings/trainings/events: \$200 rental fee x 15 meetings	\$3,000
Postcard mailings to recruit program participants: \$0.34 x 18,423 households	\$6,264
<b>Total Other</b>	<b>\$25,264</b>
<b>Indirect Charges</b>	
11.09% of Total Personnel (\$259,056) + Fringe Benefits (\$47,815)	\$34,032

<b>Total Indirect</b>	<b>\$34,032</b>
<b>Total Funding</b>	<b>\$419,446</b>
<b>Total Project Cost</b>	<b>\$419,446</b>

### **C. Expenditure of Awarded Funds**

Clean Air Council has over 40 years of experience managing numerous federal grants, including agreements with the U.S. EPA. The Council's management team (Executive Director and Project Manager) has a robust system for tracking project implementation and spending. This approach includes a weekly check-in between management and program staff to evaluate progress of project deliverables and goals, what the staff accomplished in the previous week on the project, what the staff is planning for the following week, and how to overcome any potential challenges. In addition, on a monthly basis, the Council's accounting department tracks staff time and other expenses billed to each grant and the management team uses this information to ensure the efficient execution of projects and that costs are within budget, making adjustments as needed.

March 23, 2022

SUBJECT: Quality Assurance Statement for Clean Air Council's Project: Community based Air Quality Monitoring in Environmental Justice (EJ) Communities along the Industrialized I-95 Corridor in Southeast Pennsylvania

RFA Number – EPA-OAR-OAQPS-22-01

FROM: Karl Koerner, Engineering & Technical Coordinator, Clean Air Council

TO: U. S. Environmental Protection Agency (EPA)

Community Advocate Russell Zerbo and Engineering & Technical Coordinator Karl Koerner will be responsible for the quality assurance (QA) and quality control (QC) aspects of the proposed project. Karl and Russell have previously managed and administered a community air monitoring program conducted in the Kensington neighborhood of North Philadelphia, funded by the Aetna Foundation beginning in late 2017. Karl and Russell continued to receive funding for air monitoring projects and successfully administered and managed community-based air monitoring projects funded by Delaware Health Sciences Alliance and Temple University. Russell is currently a co-principal investigator on a National Science Foundation funded project with Temple University that includes the use of low-cost particulate matter monitors in the city of Philadelphia as a part of a larger community organizing effort.

Karl Koerner is an energy and environmental engineer with almost a decade of hands-on engineering experience with low-cost sensor technology gained from field evaluations of sensors, development of custom air monitoring technology, and data processing and analysis of large volumes of sensor data. He holds a bachelor's of science degree in Energy Engineering from Penn State University. He has attended EPA low-cost sensing technology workshops and has been involved in discussions with EPA Region 3 about using low-cost sensor data.

Russell Zerbo is an experienced community organizer, anthropologist, journalist, and published academic author with a Bachelor's in Government from the College of William and Mary in Williamsburg, VA.

Russell will be responsible for communicating with community groups associated with the proposed project to ensure that all local expectations are being met and impacted residents continue to have confidence in this effort to improve local public health, document current public health outcomes and increase oversight on the environmental impact of pollution sources in the targeted municipalities: Chester, Trainer/Marcus Hook, and Eastwick.

Karl will be responsible for evaluating the accuracy of air monitoring data gathered during this project as well as ensuring that all project materials, communications, visualizations and demonstrations accurately depict air quality data in the target areas.



Clean Air Council staff will hold weekly quality assurance meetings as a part of this project to share ongoing grant activities and solve potential issues with the project. Clean Air Council will also meet with participating community groups at least once a month to share information about local air quality monitoring, local public health outcomes and concerns, and current industrial permitting.

Clean Air Council staff will also regularly meet with professors from Johns Hopkins University and the Center for Sustainable Communities at Temple University to further analyze air quality data and public health information gathered during this project.

The Council will be collecting and interpreting air quality, environmental, and public health data sets, in addition to analyzing prior existing environmental health data via databases or literature that have already been compiled. The Council will submit a QA/QC plan prior to any data collection or processing and will make sure that all data will be properly managed and used in the appropriate manner determined by the EPA. Any original data that may be generated will be transmitted to the proper EPA channels for storage if needed. The Council will also budget for external quality assurance consultant fees and has active relationships with air quality and social scientists at Temple University and Johns Hopkins University to review and participate in project activities. The Council is generally aware of the dependencies of its chosen sensors and has written software in the past for data management and processing in R and Python in order to account for outliers and temperature and humidity dependencies. The Council has past experience writing quality assurance project plans (QAPP) for monitoring projects that detail monitoring protocols, data management and chain of custody, and data storage and analysis.

# JOSEPH MINOTT

## Ex. 6 Personal Privacy (PP)

### SUMMARY OF QUALIFICATIONS

A public interest attorney and the executive director of an environmental advocacy group with over 30 years of litigation and non-profit management work experience, and 15 years of higher education teaching experience, specializing in developing and executing outreach programs, creating and implementing litigation strategies, and managing and developing legal staff.

### WORK EXPERIENCE

#### *Executive Director and Chief Counsel*

**May 1985 – Present**

#### *Staff Attorney*

**August 1982 – May 1985**

#### *Clean Air Council*

**Philadelphia, PA**

- Oversaw community organizing and litigation for a statewide environmental advocacy group with 9K members.

#### **Organizational Management:**

- Increased annual fundraising from \$100K to \$2.5MM, which included raising funds from donors, special events, foundations and government contracts. (Just get rid of agency names).
- Secured, grew and managed funding relationships with foundations that included the William Penn Foundation, The Heinz Endowments and The Colcom Foundation.
- Grew the organization from 3 to 34 staff while designing and implementing HR policies and procedures.
- Increased membership contributors from 800 to 9,000 and opened three satellite offices while expanding the area of operations from Greater Philadelphia to all of PA and parts of DE, NJ and NY.
- Expanded the organization's mission from Clean Air Act implementation to climate change issues, indoor air pollution issues, children's environmental health, environmental justice, and the promotion of sustainable energy.

#### **Litigation:**

- Successfully sued to protect Pennsylvania's automobile inspection and maintenance (I/M) program, and successfully sued Philadelphia for violating its state implementation plan.
- Litigated major environmental cases, which included settling a case with a local refinery to lower emissions, settling a case with the State of Pennsylvania to ensure the transparency of their air permitting program, and settling a case to protect low income energy efficiency programs in rate cases.
- Successfully litigated 40 environmental cases, including Clean Air Act cases in local, state and federal court.
- Led community organizing and potentially precedent setting litigation in the Marcellus Shale regions of PA.

#### **Community Outreach:**

- Directed the planning, promotion and execution of three major special events per year with up to 20K attendees, including The Run for Clean Air, Greenfest and Dine Out for the Environment.
- Opened and operated the only indoor air pollution information center in the state of Pennsylvania.
- Conducted environmental justice programs in Philadelphia and Wilmington, DE that taught residents to identify environmental health issues, sources of pollution and regulatory or legislative solutions.
- Developed and managed outreach programs throughout PA and DE which led to increased environmental monitoring and the modification or elimination of industry plans.
- Drafted and secured support for Philadelphia's ordinance prohibiting smoking in workplaces.

#### *Adjunct Professor*

**September 1995 – May 2010**

#### *Various Colleges*

**Philadelphia, PA**

- Lectured University of Pennsylvania graduate students in a variety of environmental policy courses.
- Taught environmental law to undergraduates at Temple University and introduction to the environment to undergraduates at Moore College of Art.

### PUBLICATIONS

Fugitive Emissions: The Marcellus Shale and the Clean Air Act." Joseph Minott and Jonathan Skinner. Natural Resources and the Environment. Vol 26, Winter 2012.

A Citizen's Guide to Title V Operating Permits. (1999 EPA Contract).

### EDUCATION

*Juris Doctor (JD)*, Villanova University School of Law

*Master of Arts (M.A.), Political Science*, University of Pennsylvania

# ECHO ALFORD

## Ex. 6 Personal Privacy (PP)

### SUMMARY

- Experienced Community Organizer
- Based in Upper Chichester, Delaware County
- Excellent verbal and written communication skills
- Graphic Design experience
- Event planning and coordination background
- Team building and team leadership
- Research and development of educational and outreach materials

### EDUCATION

<b>The People's Forum</b> School of Art, Culture, and Resistance Political Economy of Cultural Production Organizational Theory and Practice Capitalism and the Climate Crisis Histories of the Working Class in North America Conjunctural Analysis for Organized Struggle	<b>2020-present</b>
<b>University of the Arts</b> <b>Chichester High School</b>	<b>2003- 2005</b> <b>Class of 2003</b>

### ORGANIZING EXPERIENCE

<b>Marcus Hook, Trainer, Chichester Neighbors for Public Health</b> <ul style="list-style-type: none"><li>• Coordinating with Johns Hopkins University researchers and community members to obtain air quality measurements</li><li>• Planned and co-hosted the webinar <u>Pollution and Public Health in Delaware County</u> with Clean Air Council</li><li>• Developing organizational guidelines and strategy</li><li>• Developing outreach strategy, plans, and materials including <u>infographics</u></li><li>• Coordinating with other community organizations to maximize the impact of our work towards our shared goals</li></ul>	<b>May 2021-present</b>
<b>Vaccine Outreach Campaign</b> <ul style="list-style-type: none"><li>• Organized to help at risk and under-served community members receive Covid-19 vaccines</li><li>• Recruit and trained volunteers to help community members register for the vaccine</li><li>• Provide logistical and practical support to get community members to vaccine appointments</li></ul>	<b>March 2021-present</b>

<b>Philadelphia Liberation Center</b>	<b>2020-present</b>
---------------------------------------	---------------------

- CASA anti-eviction network 2020-present
  - Provide information and practical support to community members facing housing insecurity
  - Helping community members access and apply for rental assistance
  - Emergency housing support and fundraising
- Unity and Survival Program 2020-present
  - Organized and mobilized to provide free grocery delivery to families facing food insecurity through the Covid-19 pandemic
- Regularly delivered fresh food to over 500 struggling families since March 2020
  - Over 15,000 boxes of fresh food served and counting
    - Published article on [Food Deserts](#)
    - Published article on [The People's Kitchen](#)

#### **Save the CWA**

**2020-present**

- Worked with Chester Water Authority organizers to develop a petition and outreach strategy
  - Created [infographic series](#)
- Recruited and trained community members across Delaware and Chester Counties to conduct outreach
  - Organized a rally and petition drive
  - Organized and mobilized for door-to-door petitioning

#### **Tri-State Underground Co-founder**

**2017-present**

##### **Executive Director of Operations for Wilmington, DE chapter**

- Built a network of artists, musicians, venues, small business owners, and community members who share a common goal of sharing culture and fighting food insecurity in our communities
  - Organizing community culture events
  - Fundraising
  - Raising awareness of food insecurity
- Partnered with Latin American Community Center Food Pantry in Wilmington, DE to provide a steady supply of donated funds and food

## **Work and Volunteer Experience**

**Advocacy Director, Clean Air Council - Philadelphia, PA January 2013 - present** • Manage the Council's advocacy staff across Pennsylvania on campaigns to reduce air and water pollution from industrial infrastructure and advance environmental protections at the local, state, and federal level. Hire, train, supervise, and evaluate a team of 10 staff.

- Serve as a member of Clean Air Council's management team; support discussions and projects to improve the organization, troubleshoot organizational and personnel issues, and develop or revise organizational policies
- Develop campaign plans and timelines for the Council's policy advocacy campaigns and programs
- Lead writer on dozens of funded grants for advocacy programs
- Track and evaluate outputs from an average of 10 grants and write reports to funders
- Worked on a team to implement field activities in Pennsylvania as part of a national Climate Action Campaign that led to President Obama's Environmental Protection Agency (EPA) introducing the landmark Clean Power Plan climate policy (2015)
- Helped lead a campaign against a proposed oil import/export terminal in Philadelphia that was successful in convincing Governor Wolf to choose an alternative project for the site that would not adversely affect public health and the environment (2016)
- Played a leadership role in a coalition effort to successfully convince the City of Philadelphia to commit to generating 100% of its energy with renewable sources by 2030 (2017)
- Led a multi-year coalition campaign to convince Pennsylvania to adopt air pollution standards for new natural gas sites (2018)
- Led an effort with a partner to engage stakeholders in envisioning the long-term future of the former South Philly refinery site (2020)
- Serve as the Pennsylvania state lead for a national campaign to convince the EPA to adopt rules that greatly reduce greenhouse gasses and harmful pollutants from oil and gas operations

**Community Outreach Coordinator, Clean Air Council - Philadelphia, PA August 2011 - December 2013**

- Educated 300 residents in 10 shale gas counties on health and air quality impacts of fracking
- Trained 50 community leaders in 8 counties on how to track proposed industrial infrastructure and plan campaigns
- Trained and coached community leaders from across the state on 3 local campaigns to better protect health
- Organized 20 commenting campaigns on air permits for natural gas infrastructure, which prompted 15 public hearings and pollution reduction measures on over a dozen facilities

**Graduate Research Assistant, Virginia Tech Department of Urban Affairs and Planning September 2009**

- **May 2011** • Worked on a team to complete a World Bank-funded water and sanitation project in Senegal
- Analyzed information about water uses from information obtained through community focus groups
- Co-wrote and edited sections of a 315 page report, including a cost-benefit analysis of water systems

**Young People We Care (YPWC), Santasi-Kumasi, Ghana (virtual volunteer) 2008 - 2011** • Wrote a 75 page report that included an analysis of interview responses and a guide to planning actions for youth leaders to use in local advocacy efforts to manage water resources (fulfilled master's thesis requirement)  
• Coordinated global exchange on watershed issues between 15 youth in West Virginia and rural Ghana

**Step by Step AmeriCorps Sustainability VISTA - Harts, WV September 2008 - September 2009** •

Organized community members to convince their local government officials to provide clean drinking water • Coordinated 4 staff on a 3-county watershed service-learning program  
• Wrote and obtained \$5,000 and \$50,000 watershed service-learning grants and reported on achievements • Organized Earth Day event for 75 people who participated in 2 service projects, including tree planting

**Step by Step AmeriCorps Environmental Coordinator VISTA - Kermit, WV September 2007 - September 2008** •

Wrote and secured a \$25,000 and \$35,000 watershed service-learning grant and evaluated the program • Developed a partnership between a land trust and a mining company and managed 20 volunteers in a reclamation project to plant over 2,000 American Chestnut saplings on post-mined land  
• Coordinated 5 environmental summer programs, 20 weekend programs, and 10 volunteer groups • Recruited, trained and managed over 100 volunteers, including 15 on a tree planting project in Kermit

**Yunnan Mountain Heritage Foundation Intern - Dêqên Tibetan Autonomous Prefecture, China April 2007 - June 2007** •

Worked with volunteers to inventory products and launch a Women's Handicraft Center • Assisted 6 minority artisans in designing and developing eco-friendly marketable handicrafts • Co-led a pilot project to install locally made hood vents in 4 homes that visibly reduced indoor wood smoke

**Foreign English Teacher, Baoji Kid Castle English School - Baoji City, China September 2006 - March 2007** •

Planned lessons and taught 32 hours of English a week to children aged 3-12  
• Worked on a team to write an orientation, training videos, and resource packet for new English teachers

## **Education**

**Master of Urban and Regional Planning September 2009 - May 2011 Watershed Management Graduate Certificate**

Virginia Polytechnic Institute and State University

GPA: 3.97

**Bachelor of Fine Arts, Double Major in Environmental Studies and Computer-aided Design 2002 - 2006**

Temple University

GPA: 3.70

Achievements: *magna sum laude*, 2002 – 2006 Dean's Lists, Academic Scholarship **2002 - 2006** Temple

University Study Abroad: Rome, Italy **Spring 2005**

# EVE MIARI

## Ex. 6 Personal Privacy (PP)

### EDUCATION

#### **Harvard University, Graduate School of Education**

Sept. 2002- June 2003

Master of Education, Human Development and Psychology

#### **Brandeis University**

Sept. 1995- June 1999

Bachelor of Arts, Sociology and Education

### PROFESSIONAL EXPERIENCE

#### **Advocacy Coordinator, Clean Air Council**

Jan 2018- Present

- Leading the Council's initiatives around oil & gas infrastructure expansion in the Delaware River Watershed
- Organizing and supporting community members in their advocacy efforts to protect clean air, clean water, and environmental health

#### **Founder and Director Middletown Coalition for Community Safety**

Aug. 2016- Jan 2018

- Founded grassroots community coalition resisting Mariner East 2 Pipeline
- Community outreach, education, advocacy, fundraising, marketing, website, social media, PR, strategic planning, engaging with elected officials and other stakeholders, movement building
- Responsible for conducting monthly general meetings and monthly board meetings, as well as facilitating weekly working group meetings and conference calls.
- Frequent event planning and coordination

#### **Founder and Director Compass Education**

Sept. 2009- April 2018

- Responsible for all program coordination & private instruction for hundreds of middle and high school students with academic challenges and diagnosed learning disabilities
- Responsible for all aspects of business administration including: human resources, marketing, sales, budget, IT, website management, program evaluation, and client services
- Supervised staff of up to 20 tutors

#### **Board Member and Volunteer, Transition Town Media**

May 2012- Dec 2014

- Worked on various community wide projects including: launching "Greater Media Yards", a community edible garden initiative, initiating Media Free Store, spearheading "Green Sunday", the annual local artisan market, and many others.
- Worked on fundraising campaigns, long term strategic planning, and detail oriented event planning & coordination for large community wide events.

#### **Director of Development**

Spontaneous Celebrations Community Arts Center, Jamaica Plain, MA

Sept 2006-Oct 2009

- Responsible for all grant writing, grants management and implementation
- Responsible for 4 large community wide fundraisers per year, including managing event budget, community and business sponsors, and coordinating online fundraising campaigns
- Managed capital campaign and successfully spearheaded building renovations to meet all accessibility codes

- Served as facilities manager for all rentals of community center building, coordinated all permits, worked with renters, local police department, board of licensing, etc

**Middle School Teacher**

Dec. 2004-June 2006

New Boston Pilot Middle School, Dorchester, MA

- Designed and implemented all curriculum for a 6<sup>th</sup> grade Humanities inclusion classroom

**After School Teacher and Program Director**

Sept. 2000-Dec. 2004

Freedom House, Roxbury, MA

- Designed and implemented middle school academic enrichment and social justice program
- Coordinated all program activities: field trips, guest speakers, community service projects
- Recruited, trained, and supervised all staff, college interns, and student volunteers

**OTHER INTERESTS**

Community empowerment, social justice, arts education, environment, conservation, sustainable development, community gardens, hiking, yoga



Manifest for Grant Application # GRANT13580463

Grant Application XML file (total 1):

1. GrantApplication.xml. (size 32746 bytes)

Forms Included in Zip File(total 6):

1. Form ProjectNarrativeAttachments\_1\_2-V1.2.pdf (size 16033 bytes)

2. Form SF424\_3\_0-V3.0.pdf (size 24113 bytes)

3. Form SF424A-V1.0.pdf (size 22937 bytes)

4. Form EPA4700\_4\_3\_0-V3.0.pdf (size 22587 bytes)

5. Form OtherNarrativeAttachments\_1\_2-V1.2.pdf (size 16015 bytes)

6. Form EPA\_KeyContacts\_2\_0-V2.0.pdf (size 37007 bytes)

Attachments Included in Zip File (total 25):

1. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1254-Resume - Echo Alford.pdf application/pdf (size 72660 bytes)

2. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1257-Staff Bios (1).pdf application/pdf (size 40328 bytes)

3. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1255-JOM\_resume2020.pdf application/pdf (size 247197 bytes)

4. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1249-TempleLetter of Support-3-23-22.pdf application/pdf (size 183736 bytes)

5. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1248-Marcus Hook Area Neighbors Group Letter of Support for EPA AQM grant (1).pdf application/pdf (size 71595 bytes)

6. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1251-Resume - Russell Zerbo.pdf application/pdf (size 54351 bytes)

7. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1250-Resume- Eve Miari.pdf application/pdf (size 78934 bytes)

8. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1253-Resume - Karl Koerner.pdf application/pdf (size 69511 bytes)

9. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1252-Resume - Matt Walker.pdf application/pdf (size 68153 bytes)

10. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1234-Clean Air Council - IRS Tax Status Letter.pdf application/pdf (size 979853 bytes)

11. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1242-Delco\_DAOSupportLtr\_CAC-EPA-Health+AQM grant.pdf application/pdf (size 89387 bytes)

12. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1241-Delco  
OOS Letter of Support 3.24.22 (1).pdf application/pdf (size 145697 bytes)

13. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1240-Delco  
Health Dept EPA Grant Support Letter - DCHD 03.25.2022.pdf application/pdf (size 34767  
bytes)

14. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1239-Delco  
Council Letter of Support.pdf application/pdf (size 134857 bytes)

15. ProjectNarrativeAttachments\_1\_2 ProjectNarrativeAttachments\_1\_2-Attachments-1258-  
EPA Air Quality Monitoring Grant Narrative (1).pdf application/pdf (size 195842 bytes)

16. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1243-  
Eastwick United Description .pdf application/pdf (size 23421 bytes)

17. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1235-  
Communality-Based Organization Set-Aside (1).pdf application/pdf (size 42805 bytes)

18. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1245-  
Empowered CDC Support Letter.pdf application/pdf (size 40342 bytes)

19. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1238-  
CRCQLLetter.docx.pdf application/pdf (size 47826 bytes)

20. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1237-CM  
Gym - Letter of Support (CAC Grant Application).pdf application/pdf (size 151496  
bytes)

21. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1244-  
EastwickUnitedLetterofSupport.PDF application/pdf (size 420910 bytes)

22. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1247-  
JohnsHopkins\_CAC\_EPA (1).pdf application/pdf (size 60579 bytes)

23. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1236-City  
of Philadelphia Support letter on Letter Head2.pdf application/pdf (size 108132 bytes)

24. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1256-  
Quality Assurance Statement (2).pdf application/pdf (size 29906 bytes)

25. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1246-  
EnergyJusticeLetter for CAC\_s EPA air monitoring grant.pdf application/pdf (size  
167335 bytes)

**Karl Koerner**

## **Ex. 6 Personal Privacy (PP)**

### **OBJECTIVE**

To better my workplace and community by using my knowledge of energy and environmental engineering to educate, research, and enact change, paving the way to a more sustainable future.

### **WORK EXPERIENCE**

#### **Clean Air Council – Philadelphia, PA**

Engineering/Technical Coordinator (October 2014 – November 2018) Energy and

Environmental Engineer II (December 2018 – Present)

- Reviews and develops technical comments submitted to federal, state, and local permitting agencies including comments on: Title V permits, plan approval applications, state implementation plans, air monitoring network plans, and proposed regulations
- Acts as technical support for the analysis and interpretation of complex industrial processes
- Writes technical aspects of energy, public health, air pollution, and legal reports
- Serves on PADEP Alternatives Analysis Workgroup
- Conducts original research related to citizen science and custom low-cost air quality monitoring
- Designs, programs, and constructs custom air quality monitors
- Manages citizen air monitoring program, including outreach in communities and schools
- Advises on engineering and technical issues in litigation including conducting research, testifying before state and local air permitting agencies, and acting as a witness
- Develops factsheets and public education materials to educate communities and make public health, energy, and air pollution issues more accessible
- Manages interactive websites to promote diesel idling reduction and air pollution education and reporting
- Served on internal diversity committee examining and implementing practices to make a more inclusive work environment

### **EDUCATION**

**The Pennsylvania State University, University Park, 2013**

## **Bachelor of Science in Energy Engineering**

Minor – **Environmental Engineering**

Cumulative GPA – 3.44/4.00

### **RELEVANT SKILLS**

- Self-motivated, and skilled at managing multiple tasks and projects for group and individual work
  - Excellent verbal and written communication skills, ability to present complex information in an easy to understand manner to groups of all ages and backgrounds
  - Experience designing educational materials using Adobe InDesign and Microsoft Publisher
  - Ability to quickly adapt and learn new technology with experience coding, designing, and problem solving using C++ Programming, EAGLE CAD, Arduino, SciLab, MatLab, and LaTeX

### **HOBBIES**

Hiking, Reading, Travel, Cycling, Arduino Tinkering, Board Games

Joseph Otis Minott, Esq., Executive Director and Chief Counsel, holds an M.A. in political science from the University of Pennsylvania and a J.D. from Villanova University School of Law and has led the Clean Air Council for over 40 years. He leads a staff of nearly 30 advocates, community organizers, lawyers, engineers, and communications experts to advance the organization's mission, goals, and program objectives.

Matt Walker, Advocacy Director, holds a Masters in urban and regional planning from Virginia Tech and has 15 years of experience engaging communities in addressing environmental issues. Walker is a member of the Council's management team and supervises advocacy staff across Pennsylvania on implementing programs and campaigns to reduce air and water pollution from industrial infrastructure and advance environmental protections at the local, state, and federal level.

Karl Koerner, Engineering & Technical Coordinator, is an energy and environmental engineer with almost a decade of hands-on engineering experience with low-cost sensor technology gained from field evaluations of sensors, development of custom air monitoring technology, and data processing and analysis of large volumes of sensor data. He holds a bachelor's of science degree in Energy Engineering from Penn State University. He has attended EPA low-cost sensing technology workshops and has been involved in discussions with EPA Region 3 about using low-cost sensor data.

Russell Zerbo, Community Advocate, has been at the Clean Air Council since 2012. He helps residents in Pennsylvania, Delaware and New Jersey communicate with government agencies regarding environmental issues. He has a bachelor's degree in government with a minor in anthropology from the College of William and Mary in Williamsburg, VA. He was the 2017 SustainPHL Activist of the Year.

Eve Miari, Advocacy Coordinator, holds an Ed.M in human development and psychology, a BA in sociology and environment, and a certificate in Environmental Leadership. She leads the Council's outreach, education, and organizing in communities surrounding Philadelphia. She brings nearly two decades of experience in education, non-profit, and community organizing. Eve is a resident of Delaware County who previously served on the board of Transition Town Media, as well as on the Delaware County Council Transition Team on Public Health.

Echo Alford, Community Organizer, leads the Council's organizing efforts in the greater Marcus Hook area, including Upper and Lower Chichester, Marcus Hook, and Trainer. A resident of Upper Chichester township, they have over five years of experience as a community organizer in Delaware County, including with Marcus Hook Area Neighbors for Public Health, Save Chester Water Authority, and with local vaccine outreach campaigns during the COVID-19 pandemic.

Russell Zerbo

Ex. 6 Personal Privacy (PP)

## EDUCATION

College of William and Mary, Williamsburg, VA  
Major in Government, Minor in Anthropology  
Graduated May, 2011

## WORK EXPERIENCE

Clean Air Council (8/2012-present)

Advocate

- Organized and participated in press conferences, public meetings, panel discussions, toxic site tours, rallies, legislative meetings, workshops and other advocacy/education efforts.
- Wrote and coordinated publishing of columns and letters for self and others advocating for pollution control, renewable energy, public transportation.
- Assisted in the drafting, administering and evaluation of a door-to-door survey on environmental hazards in the River Wards area of Philadelphia as well as similar studies around Philadelphia and Delaware.
- Spoke publicly advocating for air quality and public health issues at career days, community events, and public hearings including the Zoning Board of Adjustment.
- Organized community groups to successfully oppose local air pollution proposals.
- Wrote, researched and disseminated email actions on a variety of issues and public comment periods including energy efficiency, climate change, air pollution and stormwater management.
- Wrote several successful grant proposals for resident air monitoring project.
- Organized and worked exhibition events including the Philadelphia Science Festival.
- Receives incoming environmental complaints, forming new campaigns addressing emerging issues like agricultural waste, illegal dumping, sewage pelletization and nuisance businesses.

## Awards/Activities

- SustainPHL 2017 Activist of the Year
- Advisory committee member for the Landscape Architecture Foundation grant -- Greenscapes to Brownscales: A Study on Impacts to Contaminant Levels in Landscapes Adjacent to Highways.
- Published academic author: <https://cleanair.org/climate-ready-philly/>
- <https://twitter.com/templeppl/status/1417488647780241418>
- Contributing member of Philadelphia Health Department's Climate Change and Health Advisory Group, the Academy of Natural Sciences' Philadelphia Environmental Justice Roundtable, the Penn Water Center's Water Justice Advisory Board
- Contributing member of Philadelphia Health & Environment Ethnography Lab out of Drexel University

## Biosketch

Russell Zerbo has been involved in research and advocacy around public health in Philadelphia, Pennsylvania and Delaware since participating in an Environmental Justice small grant from the U.S. Environmental Protection Agency in 2012. The project aimed to determine the environmental hazards prevalent in the Kensington area of Philadelphia, contributing to staggering negative health indicators for the area including childhood asthma hospitalizations. The project determined that scrapyards, truck traffic, and legacy industrial sites were the prevalent neighborhood hazards. After the project's conclusion, Russell took an active role with Dr. Ali Kenner's door-to-door environmental health survey of Philadelphia's Kensington, Bridesburg and Port Richmond neighborhoods, leading student survey teams in the evening as well as contributing to the survey's design and eventual analysis. Russell then began participating in Dr. Kenner's "Climate, Health and Home" project, a series of education workshops on public health issues related to climate change from 2014-2019. A detail analysis of this project co-authored by Russell was published in the journal of Environmental Justice in 2020.

After the door-to-door survey's completion, Russell began directly assisting Kensington residents in the reporting of air pollution incidents from scrapyards to the City of Philadelphia's Air Management Services, leading to the eventual closure of at least one nuisance business. The information collected in this process led to Clean Air Council successfully proposing a citizen air monitoring project in Kensington, including analysis of daily air quality and at least 8 education workshops on current neighborhood conditions and health assessments. Council proposed to not only assist residents in reporting pollution incidents, but to proactively address new industrial proposals in residential areas via Philadelphia's Zoning Board of Adjustment.

While the air monitoring network is concentrated in the Kensington area, Russell also began working with communities in Southwest Philadelphia and Germantown regarding dangerous auto-related business. Because of Philadelphia's industrial history there are many fossil fuel and automobile centric businesses located in residential areas, largely because of the now antiquated need to access to retail coal. Philadelphia's nation leading deep poverty, poor housing stock and abundance of vacant land also contributes to the prevalence of industrial businesses in residential neighborhoods. Russell contributed that insight to the Philadelphia Planning Commission's assessment of auto-related businesses seen here:

<https://www.phila.gov/CityPlanning/resources/Publications/ScrapYard%20White%20PaperFINAL.pdf>

Russell successfully presented this report in a Zoning Board of Adjustment hearing for 2100 S 61st St., an auto-related business that was formerly a retail coal yard that was now applying to reopen after a large fire (caused by mismanagement) threatened residents in extremely close proximity. Council's air monitoring work is summarized here in this contribution to Community Driven Research Day: [https://jdc.jefferson.edu/student\\_papers/22/](https://jdc.jefferson.edu/student_papers/22/)

Council was proud to assist concerned Kensington residents when a large fire erupted within a scrapyard that had been the focus of advocacy campaigns for years. Council was able to provide eye-level air quality data regarding the fire when city regulators did not disclose such information, leaving to the City of Philadelphia levying a significant fine and a new consent decree with the nuisance business.

Russell continues to pursue opportunities for Philadelphia, Pennsylvania and Delaware residents to engage with public officials and neighbors regarding environmental hazards.